



August 09, 2021

Andy Warnick
Rosemont Copper Company
5255 East Williams Circle, Suite W1065
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TEL (520) 400-0085
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RE: Baseline Stormwater Monitoring

Work Order No.: 21G0635
Order Name: Baseline Stormwater
Monitoring

Dear Andy Warnick,

Turner Laboratories, Inc. received 8 sample(s) on 07/23/2021 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Elizabeth Kasik
Laboratory Director

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
Date Received: 07/23/2021

Order: Baseline Stormwater Monitoring

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
21G0635-01	TTa1.072221	Storm Water	07/22/2021 2000
21G0635-02	D12.072221	Storm Water	07/22/2021 2000
21G0635-03	TTA2.072221	Storm Water	07/22/2021 2000
21G0635-04	TTA3.072221	Storm Water	07/22/2021 2000
21G0635-05	D4.072221	Storm Water	07/22/2021 2000
21G0635-06	D4a1.072221	Storm Water	07/22/2021 2000
21G0635-07	D4a2.072221	Storm Water	07/22/2021 2000
21G0635-08	D32.072221	Storm Water	07/22/2021 2000

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
Date Received: 07/23/2021

Case Narrative

- B1 Target analyte detected in the method blank at or above the method reporting limit.
- B5 Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
- B7 Target analyte detected in method blank at or above the method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
- C4 Confirmatory analysis was past holding time
- D5 Minimum Reporting Limit (MRL) is adjusted due to sample dilution; analyte was non-detect in the sample.
- E4 Concentration estimated. Analyte was detected below laboratory Minimum Reporting Limit (MRL) but above MDL.
- E8 Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
- H3 Sample was received and/or analysis requested past holding time.
- H5 This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
- M1 Matrix spike recovery was high; the associated LCS/LCSD was acceptable.
- M2 Matrix spike recovery was low; the associated LCS/LCSD was acceptable.
- M3 The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS/LCSD recovery was acceptable.
- M6 Matrix spike recovery was high. Data reported per ADEQ policy 0154.000. Matrix interference was confirmed.
- Q9 Insufficient sample received to meet method QC requirements.

All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.

- ND Not Detected at or above the PQL
- PQL Practical Quantitation Limit
- DF Dilution Factor

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
Lab Sample ID: 21G0635-01

Client Sample ID: TTa1.072221
Collection Date/Time: 07/22/2021 2000
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]								
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	200	22		mg/L	1	07/29/2021 1805	07/30/2021 1326	CR
Hardness-Calculation								
Hardness, Calcium/Magnesium (As CaCO3)	170			mg/L	1	08/02/2021 1100	08/06/2021 0832	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation								
Nitrogen, Total	8.6			mg/L	10	07/29/2021 1630	08/03/2021 1340	JG
Nitrate + Nitrite Sum-Calculation								
Nitrate and Nitrite Sum	1.4	0.10		mg/L	1	07/23/2021 1638	07/23/2021 2035	JG
ICP Dissolved Metals-E 200.7 (4.4)								
Boron	0.010	0.10		mg/L	1	07/29/2021 1805	07/30/2021 1326	CR
Calcium	72	4.0		mg/L	1	07/29/2021 1805	07/30/2021 1326	CR
Iron	ND	0.30		mg/L	1	07/29/2021 1805	07/30/2021 1326	CR
Magnesium	4.8	3.0		mg/L	1	07/29/2021 1805	07/30/2021 1326	CR
Potassium	ND	5.0		mg/L	1	07/29/2021 1805	07/30/2021 1610	CR
Silica	2.7	0.20		mg/L	1	07/29/2021 1805	07/30/2021 1326	CR
Sodium	ND	5.0		mg/L	1	07/29/2021 1805	07/30/2021 1326	CR
ICP/MS Dissolved Metals-E 200.8 (5.4)								
Aluminum	ND	0.0400		mg/L	1	07/29/2021 1805	07/30/2021 1349	CR
Antimony	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1349	CR
Arsenic	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1349	CR
Barium	0.020	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1349	CR
Beryllium	ND	0.00025		mg/L	1	07/29/2021 1805	07/30/2021 1349	CR
Cadmium	0.0017	0.00025		mg/L	1	07/29/2021 1805	07/30/2021 1349	CR
Chromium	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1349	CR
Cobalt	0.0098	0.00025		mg/L	1	07/29/2021 1805	07/30/2021 1349	CR
Copper	0.32	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1349	CR
Lead	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1349	CR
Manganese	0.86	0.0025	M1	mg/L	10	07/29/2021 1805	08/02/2021 1443	CR
Molybdenum	ND	0.0025	D5	mg/L	10	07/29/2021 1805	08/02/2021 1443	CR
Nickel	0.0044	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1349	CR
Selenium	0.0010	0.0025	E4	mg/L	1	07/29/2021 1805	07/30/2021 1349	CR
Silver	0.00018	0.00050	E4	mg/L	1	07/29/2021 1805	07/30/2021 1349	CR
Thallium	0.000029	0.00050	E4	mg/L	1	07/29/2021 1805	07/30/2021 1349	CR
Zinc	0.26	0.040		mg/L	1	07/29/2021 1805	07/30/2021 1349	CR

CVAA Dissolved Mercury-E 245.1

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
Lab Sample ID: 21G0635-01

Client Sample ID: TTa1.072221
Collection Date/Time: 07/22/2021 2000
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Mercury	ND	0.0010	E8	mg/L	1	07/30/2021 0908	07/30/2021 1434	CR
pH-E150.1								
pH (pH Units)	6.3		H5	-	1	07/30/2021 1615	07/30/2021 1619	CWB
Temperature (°C)	22		H5	-	1	07/30/2021 1615	07/30/2021 1619	CWB
Turbidity-E180.1								
Turbidity	2800	100	H3	NTU	1000	07/27/2021 1600	07/27/2021 1655	CWB
ICP Total Metals-E200.7 (4.4)								
Boron	0.047	0.10	E4	mg/L	1	08/02/2021 1100	08/05/2021 1636	MH
Calcium	59	4.0		mg/L	1	08/02/2021 1100	08/06/2021 0832	MH
Iron	25	0.30		mg/L	1	08/02/2021 1100	08/05/2021 1636	MH
Magnesium	5.0	3.0		mg/L	1	08/02/2021 1100	08/05/2021 1636	MH
Potassium	ND	5.0		mg/L	1	08/02/2021 1100	08/06/2021 0832	MH
Silica	17	0.20		mg/L	1	08/02/2021 1100	08/05/2021 1636	MH
Sodium	ND	5.0		mg/L	1	08/02/2021 1100	08/06/2021 0832	MH
ICP/MS Total Metals-E200.8 (5.4)								
Aluminum	3.61	2.00		mg/L	50	08/03/2021 1045	08/04/2021 1421	CR
Antimony	0.00058	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1220	CR
Arsenic	0.0028	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1220	CR
Barium	0.048	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1220	CR
Beryllium	0.00046	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1220	CR
Cadmium	0.0021	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1220	CR
Chromium	0.0039	0.00050	B5	mg/L	1	08/03/2021 1045	08/04/2021 1220	CR
Cobalt	0.0113	0.000250		mg/L	1	08/03/2021 1045	08/04/2021 1220	CR
Copper	2.6	0.025		mg/L	50	08/03/2021 1045	08/04/2021 1421	CR
Lead	0.034	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1220	CR
Manganese	0.88	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1220	CR
Molybdenum	0.0060	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1220	CR
Nickel	0.0078	0.00050	B7	mg/L	1	08/03/2021 1045	08/04/2021 1220	CR
Selenium	0.0064	0.0025		mg/L	1	08/03/2021 1045	08/04/2021 1220	CR
Silver	0.0030	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1220	CR
Thallium	0.00020	0.00050	E4	mg/L	1	08/03/2021 1045	08/04/2021 1220	CR
Uranium	0.00079	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1220	CR
Zinc	0.37	0.040		mg/L	1	08/03/2021 1045	08/04/2021 1220	CR
CVAA Total Mercury-E245.1								
Mercury	ND	0.0010		mg/L	1	08/04/2021 0819	08/04/2021 1252	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
Lab Sample ID: 21G0635-01

Client Sample ID: TTa1.072221
Collection Date/Time: 07/22/2021 2000
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)								
Chloride	1.1	1.0		mg/L	1	07/23/2021 1638	07/23/2021 2035	JG
Fluoride	0.53	0.50		mg/L	1	07/23/2021 1638	07/23/2021 2035	JG
Nitrogen, Nitrate (As N)	1.4	0.50		mg/L	1	07/23/2021 1638	07/23/2021 2035	JG
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	07/23/2021 1638	07/23/2021 2035	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50	C4	mg/L	1	07/23/2021 1638	07/28/2021 2237	JG
Sulfate	160	50		mg/L	10	07/23/2021 1638	08/03/2021 0111	JG
Calculation-Ion Balance								
Anion	4.24			meq/L	1	08/09/2021 1549	08/09/2021 1550	KB
Cation	4.04			meq/L	1	08/09/2021 1549	08/09/2021 1550	KB
Cation/Anion, % Difference	2.43			meq/L	1	08/09/2021 1549	08/09/2021 1550	KB
Total Kjeldahl Nitrogen-PAI-DK01								
Nitrogen, Total Kjeldahl	7.2	5.0		mg/L	10	07/29/2021 1630	08/03/2021 1340	JG
Alkalinity-SM2320B								
Alkalinity, Bicarbonate (As CaCO3)	34	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Alkalinity, Carbonate (As CaCO3)	ND	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Alkalinity, Hydroxide (As CaCO3)	ND	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Alkalinity, Total (As CaCO3)	34	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Specific Conductance-SM2510 B								
Conductivity	400	0.10		µmhos/cm	1	07/30/2021 1615	07/30/2021 1637	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C								
Total Dissolved Solids (Residue, Filterable)	320	20		mg/L	1	07/27/2021 0831	07/28/2021 1602	JG
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D								
Total Suspended Solids	3200	10		mg/L	1	07/26/2021 0839	07/27/2021 0830	JG
Ammonia as N-SM4500-NH3 B,C								

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
Lab Sample ID: 21G0635-01

Client Sample ID: TTa1.072221
Collection Date/Time: 07/22/2021 2000
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Nitrogen, Ammonia (As N)	ND	0.50		mg/L	1	07/28/2021 1030	07/28/2021 1359	JG
Silica-SM4500-SiO2 C								
Silica	2.6	2.0		mg/L	1	07/28/2021 1230	07/28/2021 1710	JG

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
Lab Sample ID: 21G0635-02

Client Sample ID: D12.072221
Collection Date/Time: 07/22/2021 2000
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]								
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	370	22		mg/L	1	07/29/2021 1805	07/30/2021 1329	CR
Hardness-Calculation								
Hardness, Calcium/Magnesium (As CaCO3)	2400			mg/L	1	08/05/2021 0802	08/06/2021 0936	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation								
Nitrogen, Total	180			mg/L	20	07/29/2021 1630	08/03/2021 1340	JG
Nitrate + Nitrite Sum-Calculation								
Nitrate and Nitrite Sum	ND	0.10		mg/L	1	07/23/2021 1638	07/23/2021 2053	JG
ICP Dissolved Metals-E 200.7 (4.4)								
Boron	0.12	0.10		mg/L	1	07/29/2021 1805	07/30/2021 1329	CR
Calcium	120	4.0		mg/L	1	07/29/2021 1805	07/30/2021 1329	CR
Iron	ND	0.30		mg/L	1	07/29/2021 1805	07/30/2021 1329	CR
Magnesium	18	3.0		mg/L	1	07/29/2021 1805	07/30/2021 1329	CR
Potassium	14	5.0		mg/L	1	07/29/2021 1805	07/30/2021 1613	CR
Silica	31	0.20		mg/L	1	07/29/2021 1805	07/30/2021 1329	CR
Sodium	ND	5.0		mg/L	1	07/29/2021 1805	07/30/2021 1329	CR
ICP/MS Dissolved Metals-E 200.8 (5.4)								
Aluminum	ND	4.00	D5	mg/L	100	07/29/2021 1805	08/02/2021 1501	CR
Antimony	0.00071	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1434	CR
Arsenic	0.020	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1434	CR
Barium	0.11	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1434	CR
Beryllium	ND	0.025	D5	mg/L	100	07/29/2021 1805	08/02/2021 1501	CR
Cadmium	0.00031	0.00025		mg/L	1	07/29/2021 1805	07/30/2021 1434	CR
Chromium	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1434	CR
Cobalt	0.0042	0.00025		mg/L	1	07/29/2021 1805	07/30/2021 1434	CR
Copper	0.11	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1434	CR
Lead	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1434	CR
Manganese	2.7	0.025		mg/L	100	07/29/2021 1805	08/02/2021 1501	CR
Molybdenum	0.32	0.025		mg/L	100	07/29/2021 1805	08/02/2021 1501	CR
Nickel	0.0029	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1434	CR
Selenium	0.0012	0.0025	E4	mg/L	1	07/29/2021 1805	07/30/2021 1434	CR
Silver	0.000070	0.00050	E4	mg/L	1	07/29/2021 1805	07/30/2021 1434	CR
Thallium	0.000028	0.00050	E4	mg/L	1	07/29/2021 1805	07/30/2021 1434	CR
Zinc	ND	0.040		mg/L	1	07/29/2021 1805	07/30/2021 1434	CR

CVAA Dissolved Mercury-E 245.1

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
Lab Sample ID: 21G0635-02

Client Sample ID: D12.072221
Collection Date/Time: 07/22/2021 2000
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Mercury	0.0000090	0.0010	E4	mg/L	1	07/30/2021 0908	07/30/2021 1437	CR
pH-E150.1								
pH (pH Units)	7.2		H5	-	1	07/30/2021 1615	07/30/2021 1621	CWB
Temperature (°C)	21		H5	-	1	07/30/2021 1615	07/30/2021 1621	CWB
Turbidity-E180.1								
Turbidity	78000	200	H3	NTU	2000	07/27/2021 1600	07/27/2021 1655	CWB
ICP Total Metals-E200.7 (4.4)								
Boron	0.58	0.50		mg/L	1	08/05/2021 0802	08/06/2021 0936	MH
Calcium	760	20		mg/L	1	08/05/2021 0802	08/06/2021 0936	MH
Iron	170	1.5		mg/L	1	08/05/2021 0802	08/06/2021 0936	MH
Magnesium	110	15		mg/L	1	08/05/2021 0802	08/06/2021 0936	MH
Potassium	60	25		mg/L	1	08/05/2021 0802	08/06/2021 0936	MH
Silica	640	10		mg/L	10	08/05/2021 0802	08/06/2021 1006	MH
Sodium	ND	25	D5	mg/L	1	08/05/2021 0802	08/06/2021 0936	MH
ICP/MS Total Metals-E200.8 (5.4)								
Aluminum	161	10.0		mg/L	50	08/03/2021 1045	08/04/2021 1400	CR
Antimony	ND	0.013	D5	mg/L	5	08/03/2021 1045	08/04/2021 1209	CR
Arsenic	0.094	0.013		mg/L	5	08/03/2021 1045	08/04/2021 1209	CR
Barium	1.5	0.013		mg/L	5	08/03/2021 1045	08/04/2021 1209	CR
Beryllium	0.019	0.0063		mg/L	5	08/03/2021 1045	08/04/2021 1209	CR
Cadmium	0.034	0.0063		mg/L	5	08/03/2021 1045	08/04/2021 1209	CR
Chromium	0.14	0.013	B5	mg/L	5	08/03/2021 1045	08/04/2021 1209	CR
Cobalt	0.155	0.00625		mg/L	5	08/03/2021 1045	08/04/2021 1209	CR
Copper	18	0.013		mg/L	5	08/03/2021 1045	08/04/2021 1209	CR
Lead	0.41	0.013		mg/L	5	08/03/2021 1045	08/04/2021 1209	CR
Manganese	13	0.0063		mg/L	5	08/03/2021 1045	08/04/2021 1209	CR
Molybdenum	0.33	0.0063		mg/L	5	08/03/2021 1045	08/04/2021 1209	CR
Nickel	0.14	0.013	B5	mg/L	5	08/03/2021 1045	08/04/2021 1209	CR
Selenium	0.35	0.063		mg/L	5	08/03/2021 1045	08/04/2021 1209	CR
Silver	0.027	0.013		mg/L	5	08/03/2021 1045	08/04/2021 1209	CR
Thallium	0.0043	0.013	E4	mg/L	5	08/03/2021 1045	08/04/2021 1209	CR
Uranium	0.044	0.013		mg/L	5	08/03/2021 1045	08/04/2021 1209	CR
Zinc	4.0	1.0		mg/L	5	08/03/2021 1045	08/04/2021 1209	CR
CVAA Total Mercury-E245.1								
Mercury	0.0023	0.0050	E4	mg/L	1	08/04/2021 0819	08/04/2021 1254	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
Lab Sample ID: 21G0635-02

Client Sample ID: D12.072221
Collection Date/Time: 07/22/2021 2000
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)								
Chloride	2.3	1.0		mg/L	1	07/23/2021 1638	07/23/2021 2053	JG
Fluoride	ND	0.50		mg/L	1	07/23/2021 1638	07/23/2021 2053	JG
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	1	07/23/2021 1638	07/23/2021 2053	JG
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	07/23/2021 1638	07/23/2021 2053	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50	C4	mg/L	1	07/23/2021 1638	07/29/2021 0332	JG
Sulfate	27	5.0		mg/L	1	07/23/2021 1638	07/23/2021 2053	JG
Calculation-Ion Balance								
Anion	241			meq/L	1	08/09/2021 1549	08/09/2021 1550	KB
Cation	7.93			meq/L	1	08/09/2021 1549	08/09/2021 1550	KB
Cation/Anion, % Difference	93.6			meq/L	1	08/09/2021 1549	08/09/2021 1550	KB
Total Kjeldahl Nitrogen-PAI-DK01								
Nitrogen, Total Kjeldahl	180	10		mg/L	20	07/29/2021 1630	08/03/2021 1340	JG
Alkalinity-SM2320B								
Alkalinity, Bicarbonate (As CaCO3)	12000	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Alkalinity, Carbonate (As CaCO3)	ND	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Alkalinity, Hydroxide (As CaCO3)	ND	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Alkalinity, Total (As CaCO3)	12000	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Specific Conductance-SM2510 B								
Conductivity	670	0.10		µmhos/cm	1	07/30/2021 1615	07/30/2021 1637	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C								
Total Dissolved Solids (Residue, Filterable)	520	20		mg/L	1	07/27/2021 0831	07/28/2021 1602	JG
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D								
Total Suspended Solids	95000	10		mg/L	1	07/26/2021 0839	07/27/2021 1500	JG
Ammonia as N-SM4500-NH3 B,C								

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
Lab Sample ID: 21G0635-02

Client Sample ID: D12.072221
Collection Date/Time: 07/22/2021 2000
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Nitrogen, Ammonia (As N)	2.6	0.50		mg/L	1	07/28/2021 1030	07/28/2021 1359	JG
Silica-SM4500-SiO2 C								
Silica	26	10		mg/L	5	07/28/2021 1230	07/28/2021 1710	JG

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
Lab Sample ID: 21G0635-03

Client Sample ID: TTA2.072221
Collection Date/Time: 07/22/2021 2000
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]								
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	160	22		mg/L	1	07/29/2021 1805	07/30/2021 1243	CR
Hardness-Calculation								
Hardness, Calcium/Magnesium (As CaCO3)	210			mg/L	1	08/02/2021 1100	08/06/2021 0835	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation								
Nitrogen, Total	16			mg/L	10	07/29/2021 1630	08/03/2021 1340	JG
Nitrate + Nitrite Sum-Calculation								
Nitrate and Nitrite Sum	2.1	0.10		mg/L	1	07/23/2021 1638	07/23/2021 2111	JG
ICP Dissolved Metals-E 200.7 (4.4)								
Boron	0.019	0.10		mg/L	1	07/29/2021 1805	07/30/2021 1243	CR
Calcium	57	4.0		mg/L	1	07/29/2021 1805	07/30/2021 1243	CR
Iron	ND	0.30		mg/L	1	07/29/2021 1805	07/30/2021 1243	CR
Magnesium	4.7	3.0		mg/L	1	07/29/2021 1805	07/30/2021 1243	CR
Potassium	ND	5.0		mg/L	1	07/29/2021 1805	07/30/2021 1527	CR
Silica	3.8	0.20		mg/L	1	07/29/2021 1805	07/30/2021 1243	CR
Sodium	ND	5.0		mg/L	1	07/29/2021 1805	07/30/2021 1243	CR
ICP/MS Dissolved Metals-E 200.8 (5.4)								
Aluminum	ND	0.0400		mg/L	1	07/29/2021 1805	08/02/2021 1612	CR
Antimony	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1438	CR
Arsenic	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1438	CR
Barium	0.019	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1438	CR
Beryllium	ND	0.00025		mg/L	1	07/29/2021 1805	08/02/2021 1612	CR
Cadmium	0.00035	0.00025		mg/L	1	07/29/2021 1805	07/30/2021 1438	CR
Chromium	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1438	CR
Cobalt	0.0012	0.00025		mg/L	1	07/29/2021 1805	07/30/2021 1438	CR
Copper	0.080	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1438	CR
Lead	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1438	CR
Manganese	0.30	0.00025		mg/L	1	07/29/2021 1805	07/30/2021 1438	CR
Molybdenum	0.0036	0.00025		mg/L	1	07/29/2021 1805	08/02/2021 1612	CR
Nickel	0.0013	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1438	CR
Selenium	0.00065	0.0025	E4	mg/L	1	07/29/2021 1805	07/30/2021 1438	CR
Silver	0.000027	0.00050	E4	mg/L	1	07/29/2021 1805	07/30/2021 1438	CR
Thallium	ND	0.00050	E8	mg/L	1	07/29/2021 1805	07/30/2021 1438	CR
Zinc	ND	0.040		mg/L	1	07/29/2021 1805	07/30/2021 1438	CR

CVAA Dissolved Mercury-E 245.1

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
Lab Sample ID: 21G0635-03

Client Sample ID: TTA2.072221
Collection Date/Time: 07/22/2021 2000
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Mercury	ND	0.0010	E8	mg/L	1	07/30/2021 0908	07/30/2021 1439	CR
pH-E150.1								
pH (pH Units)	7.2		H5	-	1	07/30/2021 1615	07/30/2021 1622	CWB
Temperature (°C)	21		H5	-	1	07/30/2021 1615	07/30/2021 1622	CWB
Turbidity-E180.1								
Turbidity	500	100	H3	NTU	1000	07/27/2021 1600	07/27/2021 1655	CWB
ICP Total Metals-E200.7 (4.4)								
Boron	0.075	0.10	E4	mg/L	1	08/02/2021 1100	08/05/2021 1639	MH
Calcium	72	4.0		mg/L	1	08/02/2021 1100	08/06/2021 0835	MH
Iron	23	0.30		mg/L	1	08/02/2021 1100	08/05/2021 1639	MH
Magnesium	6.8	3.0		mg/L	1	08/02/2021 1100	08/05/2021 1639	MH
Potassium	6.3	5.0		mg/L	1	08/02/2021 1100	08/06/2021 0835	MH
Silica	23	0.20		mg/L	1	08/02/2021 1100	08/05/2021 1639	MH
Sodium	ND	5.0		mg/L	1	08/02/2021 1100	08/06/2021 0835	MH
ICP/MS Total Metals-E200.8 (5.4)								
Aluminum	4.81	2.00		mg/L	50	08/03/2021 1045	08/04/2021 1425	CR
Antimony	0.00073	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1223	CR
Arsenic	0.0030	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1223	CR
Barium	0.059	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1223	CR
Beryllium	0.00044	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1223	CR
Cadmium	0.0014	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1223	CR
Chromium	0.0087	0.00050	B5	mg/L	1	08/03/2021 1045	08/04/2021 1223	CR
Cobalt	0.0105	0.000250		mg/L	1	08/03/2021 1045	08/04/2021 1223	CR
Copper	1.8	0.025		mg/L	50	08/03/2021 1045	08/04/2021 1425	CR
Lead	0.028	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1223	CR
Manganese	0.86	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1223	CR
Molybdenum	0.015	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1223	CR
Nickel	0.0097	0.00050	B7	mg/L	1	08/03/2021 1045	08/04/2021 1223	CR
Selenium	0.0067	0.0025		mg/L	1	08/03/2021 1045	08/04/2021 1223	CR
Silver	0.0028	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1223	CR
Thallium	0.00022	0.00050	E4	mg/L	1	08/03/2021 1045	08/04/2021 1223	CR
Uranium	0.00082	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1223	CR
Zinc	0.25	0.040		mg/L	1	08/03/2021 1045	08/04/2021 1223	CR
CVAA Total Mercury-E245.1								
Mercury	ND	0.0010	E8	mg/L	1	08/04/2021 0819	08/04/2021 1257	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
Lab Sample ID: 21G0635-03

Client Sample ID: TTA2.072221
Collection Date/Time: 07/22/2021 2000
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)								
Chloride	1.3	1.0		mg/L	1	07/23/2021 1638	07/23/2021 2111	JG
Fluoride	0.84	0.50		mg/L	1	07/23/2021 1638	07/23/2021 2111	JG
Nitrogen, Nitrate (As N)	2.1	0.50		mg/L	1	07/23/2021 1638	07/23/2021 2111	JG
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	07/23/2021 1638	07/23/2021 2111	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50	C4	mg/L	1	07/23/2021 1638	07/29/2021 0351	JG
Sulfate	160	50		mg/L	10	07/23/2021 1638	08/03/2021 0129	JG
Calculation-Ion Balance								
Anion	4.39			meq/L	1	08/09/2021 1549	08/09/2021 1550	KB
Cation	3.25			meq/L	1	08/09/2021 1549	08/09/2021 1550	KB
Cation/Anion, % Difference	15.0			meq/L	1	08/09/2021 1549	08/09/2021 1550	KB
Total Kjeldahl Nitrogen-PAI-DK01								
Nitrogen, Total Kjeldahl	14	5.0		mg/L	10	07/29/2021 1630	08/03/2021 1340	JG
Alkalinity-SM2320B								
Alkalinity, Bicarbonate (As CaCO3)	34	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Alkalinity, Carbonate (As CaCO3)	ND	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Alkalinity, Hydroxide (As CaCO3)	ND	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Alkalinity, Total (As CaCO3)	34	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Specific Conductance-SM2510 B								
Conductivity	420	0.10		µmhos/cm	1	07/30/2021 1615	07/30/2021 1637	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C								
Total Dissolved Solids (Residue, Filterable)	360	20		mg/L	1	07/27/2021 0831	07/29/2021 0937	JG
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D								
Total Suspended Solids	170	10		mg/L	1	07/26/2021 0839	07/27/2021 0830	JG
Ammonia as N-SM4500-NH3 B,C								

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
Lab Sample ID: 21G0635-03

Client Sample ID: TTA2.072221
Collection Date/Time: 07/22/2021 2000
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Nitrogen, Ammonia (As N)	ND	0.50		mg/L	1	07/28/2021 1030	07/28/2021 1359	JG
Silica-SM4500-SiO2 C								
Silica	5.5	2.0		mg/L	1	07/28/2021 1230	07/28/2021 1710	JG

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
Lab Sample ID: 21G0635-04

Client Sample ID: TTA3.072221
Collection Date/Time: 07/22/2021 2000
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]								
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	180	22		mg/L	1	07/29/2021 1805	07/30/2021 1332	CR
Hardness-Calculation								
Hardness, Calcium/Magnesium (As CaCO3)	280			mg/L	1	08/05/2021 0802	08/06/2021 0939	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation								
Nitrogen, Total	9.7			mg/L	10	07/29/2021 1630	08/03/2021 1340	JG
Nitrate + Nitrite Sum-Calculation								
Nitrate and Nitrite Sum	1.8	0.10		mg/L	1	07/23/2021 1638	07/23/2021 2129	JG
ICP Dissolved Metals-E 200.7 (4.4)								
Boron	0.037	0.10		mg/L	1	07/29/2021 1805	07/30/2021 1332	CR
Calcium	64	4.0		mg/L	1	07/29/2021 1805	07/30/2021 1332	CR
Iron	ND	0.30		mg/L	1	07/29/2021 1805	07/30/2021 1332	CR
Magnesium	4.3	3.0		mg/L	1	07/29/2021 1805	07/30/2021 1332	CR
Potassium	ND	5.0		mg/L	1	07/29/2021 1805	07/30/2021 1616	CR
Silica	7.7	0.20		mg/L	1	07/29/2021 1805	07/30/2021 1332	CR
Sodium	ND	5.0		mg/L	1	07/29/2021 1805	07/30/2021 1332	CR
ICP/MS Dissolved Metals-E 200.8 (5.4)								
Aluminum	ND	0.0400		mg/L	1	07/29/2021 1805	08/02/2021 1615	CR
Antimony	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1519	CR
Arsenic	0.00056	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1519	CR
Barium	0.027	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1519	CR
Beryllium	ND	0.00025		mg/L	1	07/29/2021 1805	08/02/2021 1615	CR
Cadmium	ND	0.00025		mg/L	1	07/29/2021 1805	07/30/2021 1519	CR
Chromium	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1519	CR
Cobalt	0.00075	0.00025		mg/L	1	07/29/2021 1805	07/30/2021 1519	CR
Copper	0.16	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1519	CR
Lead	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1519	CR
Manganese	0.23	0.00025		mg/L	1	07/29/2021 1805	07/30/2021 1519	CR
Molybdenum	0.034	0.00025		mg/L	1	07/29/2021 1805	08/02/2021 1615	CR
Nickel	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1519	CR
Selenium	0.0018	0.0025	E4	mg/L	1	07/29/2021 1805	07/30/2021 1519	CR
Silver	0.00018	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1519	CR
Thallium	ND	0.00050	E4	mg/L	1	07/29/2021 1805	07/30/2021 1519	CR
Zinc	ND	0.040		mg/L	1	07/29/2021 1805	07/30/2021 1519	CR

CVAA Dissolved Mercury-E 245.1

Client: Rosemont Copper Company
 Project: Baseline Stormwater Monitoring
 Work Order: 21G0635
 Lab Sample ID: 21G0635-04

Client Sample ID: TTA3.072221
 Collection Date/Time: 07/22/2021 2000
 Matrix: Storm Water
 Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Mercury	0.0000074	0.0010	E4	mg/L	1	08/02/2021 0858	08/02/2021 1328	MH
pH-E150.1								
pH (pH Units)	7.2		H5	-	1	07/30/2021 1615	07/30/2021 1624	CWB
Temperature (°C)	21		H5	-	1	07/30/2021 1615	07/30/2021 1624	CWB
Turbidity-E180.1								
Turbidity	260	20	H3	NTU	200	07/27/2021 1600	07/27/2021 1655	CWB
ICP Total Metals-E200.7 (4.4)								
Boron	0.088	0.10	E4	mg/L	1	08/05/2021 0802	08/06/2021 0939	MH
Calcium	89	4.0		mg/L	1	08/05/2021 0802	08/06/2021 0939	MH
Iron	30	0.30		mg/L	1	08/05/2021 0802	08/06/2021 0939	MH
Magnesium	14	3.0		mg/L	1	08/05/2021 0802	08/06/2021 0939	MH
Potassium	6.9	5.0		mg/L	1	08/05/2021 0802	08/06/2021 0939	MH
Silica	78	0.20		mg/L	1	08/05/2021 0802	08/06/2021 0939	MH
Sodium	ND	5.0		mg/L	1	08/05/2021 0802	08/06/2021 0939	MH
ICP/MS Total Metals-E200.8 (5.4)								
Aluminum	14.8	4.00		mg/L	100	08/03/2021 1045	08/04/2021 1433	CR
Antimony	0.00071	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1227	CR
Arsenic	0.0058	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1227	CR
Barium	0.086	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1227	CR
Beryllium	0.0022	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1227	CR
Cadmium	0.0015	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1227	CR
Chromium	0.011	0.00050	B5	mg/L	1	08/03/2021 1045	08/04/2021 1227	CR
Cobalt	0.00704	0.000250		mg/L	1	08/03/2021 1045	08/04/2021 1227	CR
Copper	6.6	0.050		mg/L	100	08/03/2021 1045	08/04/2021 1433	CR
Lead	0.036	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1227	CR
Manganese	0.83	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1227	CR
Molybdenum	0.061	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1227	CR
Nickel	0.012	0.00050	B7	mg/L	1	08/03/2021 1045	08/04/2021 1227	CR
Selenium	0.020	0.0025		mg/L	1	08/03/2021 1045	08/04/2021 1227	CR
Silver	0.0040	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1227	CR
Thallium	0.00022	0.00050	E4	mg/L	1	08/03/2021 1045	08/04/2021 1227	CR
Uranium	0.0023	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1227	CR
Zinc	0.36	0.040		mg/L	1	08/03/2021 1045	08/04/2021 1227	CR
CVAA Total Mercury-E245.1								
Mercury	ND	0.0010	E8	mg/L	1	08/04/2021 0819	08/04/2021 1300	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
Lab Sample ID: 21G0635-04

Client Sample ID: TTA3.072221
Collection Date/Time: 07/22/2021 2000
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)								
Chloride	1.5	1.0		mg/L	1	07/23/2021 1638	07/23/2021 2129	JG
Fluoride	0.88	0.50		mg/L	1	07/23/2021 1638	07/23/2021 2129	JG
Nitrogen, Nitrate (As N)	1.8	0.50		mg/L	1	07/23/2021 1638	07/23/2021 2129	JG
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	07/23/2021 1638	07/23/2021 2129	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50	C4	mg/L	1	07/23/2021 1638	07/29/2021 0410	JG
Sulfate	190	50		mg/L	10	07/23/2021 1638	08/03/2021 0147	JG
Calculation-Ion Balance								
Anion	5.37			meq/L	1	08/09/2021 1549	08/09/2021 1550	KB
Cation	3.56			meq/L	1	08/09/2021 1549	08/09/2021 1550	KB
Cation/Anion, % Difference	20.2			meq/L	1	08/09/2021 1549	08/09/2021 1550	KB
Total Kjeldahl Nitrogen-PAI-DK01								
Nitrogen, Total Kjeldahl	7.9	5.0		mg/L	10	07/29/2021 1630	08/03/2021 1340	JG
Alkalinity-SM2320B								
Alkalinity, Bicarbonate (As CaCO3)	52	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Alkalinity, Carbonate (As CaCO3)	ND	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Alkalinity, Hydroxide (As CaCO3)	ND	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Alkalinity, Total (As CaCO3)	52	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Specific Conductance-SM2510 B								
Conductivity	480	0.10		µmhos/cm	1	07/30/2021 1615	07/30/2021 1637	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C								
Total Dissolved Solids (Residue, Filterable)	380	20		mg/L	1	07/27/2021 0831	07/29/2021 1342	JG
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D								
Total Suspended Solids	240	10		mg/L	1	07/26/2021 0839	07/27/2021 0830	JG
Ammonia as N-SM4500-NH3 B,C								

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
Lab Sample ID: 21G0635-04

Client Sample ID: TTA3.072221
Collection Date/Time: 07/22/2021 2000
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Nitrogen, Ammonia (As N)	ND	0.50		mg/L	1	07/28/2021 1030	07/28/2021 1359	JG
Silica-SM4500-SiO2 C								
Silica	5.8	2.0		mg/L	1	07/28/2021 1230	07/28/2021 1710	JG

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
Lab Sample ID: 21G0635-05

Client Sample ID: D4.072221
Collection Date/Time: 07/22/2021 2000
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]								
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	61	22		mg/L	1	07/29/2021 1805	07/30/2021 1634	CR
Hardness-Calculation								
Hardness, Calcium/Magnesium (As CaCO3)	340			mg/L	1	08/05/2021 0802	08/06/2021 0942	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation								
Nitrogen, Total	8.0			mg/L	10	07/29/2021 1630	08/03/2021 1340	JG
Nitrate + Nitrite Sum-Calculation								
Nitrate and Nitrite Sum	0.74	0.10		mg/L	1	07/23/2021 1638	07/23/2021 2147	JG
ICP Dissolved Metals-E 200.7 (4.4)								
Boron	0.036	0.10		mg/L	1	07/29/2021 1805	07/30/2021 1634	CR
Calcium	24	4.0		mg/L	1	07/29/2021 1805	07/30/2021 1634	CR
Iron	ND	0.30		mg/L	1	07/29/2021 1805	07/30/2021 1634	CR
Magnesium	ND	3.0		mg/L	1	07/29/2021 1805	07/30/2021 1634	CR
Potassium	ND	5.0		mg/L	1	07/29/2021 1805	07/30/2021 1634	CR
Silica	7.5	0.20		mg/L	1	07/29/2021 1805	07/30/2021 1634	CR
Sodium	ND	5.0		mg/L	1	07/29/2021 1805	07/30/2021 1634	CR
ICP/MS Dissolved Metals-E 200.8 (5.4)								
Aluminum	ND	0.0400		mg/L	1	07/29/2021 1805	08/02/2021 1619	CR
Antimony	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1522	CR
Arsenic	0.0011	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1522	CR
Barium	0.017	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1522	CR
Beryllium	ND	0.00025		mg/L	1	07/29/2021 1805	08/02/2021 1619	CR
Cadmium	ND	0.00025		mg/L	1	07/29/2021 1805	07/30/2021 1522	CR
Chromium	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1522	CR
Cobalt	0.00034	0.00025		mg/L	1	07/29/2021 1805	07/30/2021 1522	CR
Copper	0.039	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1522	CR
Lead	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1522	CR
Manganese	0.13	0.00025		mg/L	1	07/29/2021 1805	07/30/2021 1522	CR
Molybdenum	0.0053	0.00025		mg/L	1	07/29/2021 1805	08/02/2021 1619	CR
Nickel	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1522	CR
Selenium	ND	0.0025	E8	mg/L	1	07/29/2021 1805	07/30/2021 1522	CR
Silver	0.00012	0.00050	E4	mg/L	1	07/29/2021 1805	07/30/2021 1522	CR
Thallium	ND	0.00050	E8	mg/L	1	07/29/2021 1805	07/30/2021 1522	CR
Zinc	ND	0.040		mg/L	1	07/29/2021 1805	07/30/2021 1522	CR

CVAA Dissolved Mercury-E 245.1

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
Lab Sample ID: 21G0635-05

Client Sample ID: D4.072221
Collection Date/Time: 07/22/2021 2000
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Mercury	ND	0.0010	E8	mg/L	1	08/02/2021 0858	08/02/2021 1330	MH
pH-E150.1								
pH (pH Units)	7.6		H5	-	1	07/30/2021 1615	07/30/2021 1625	CWB
Temperature (°C)	21		H5	-	1	07/30/2021 1615	07/30/2021 1625	CWB
Turbidity-E180.1								
Turbidity	260	10	H3	NTU	100	07/27/2021 1600	07/27/2021 1655	CWB
ICP Total Metals-E200.7 (4.4)								
Boron	0.074	0.10	E4	mg/L	1	08/05/2021 0802	08/06/2021 0942	MH
Calcium	120	4.0		mg/L	1	08/05/2021 0802	08/06/2021 0942	MH
Iron	9.7	0.30		mg/L	1	08/05/2021 0802	08/06/2021 0942	MH
Magnesium	12	3.0		mg/L	1	08/05/2021 0802	08/06/2021 0942	MH
Potassium	5.6	5.0		mg/L	1	08/05/2021 0802	08/06/2021 0942	MH
Silica	66	0.20		mg/L	1	08/05/2021 0802	08/06/2021 0942	MH
Sodium	ND	5.0		mg/L	1	08/05/2021 0802	08/06/2021 0942	MH
ICP/MS Total Metals-E200.8 (5.4)								
Aluminum	10.8	4.00		mg/L	100	08/03/2021 1045	08/04/2021 1436	CR
Antimony	0.00082	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1246	CR
Arsenic	0.0064	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1246	CR
Barium	0.096	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1246	CR
Beryllium	0.00097	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1246	CR
Cadmium	0.00099	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1246	CR
Chromium	0.018	0.00050	B7	mg/L	1	08/03/2021 1045	08/04/2021 1246	CR
Cobalt	0.00459	0.000250		mg/L	1	08/03/2021 1045	08/04/2021 1246	CR
Copper	1.7	0.050		mg/L	100	08/03/2021 1045	08/04/2021 1436	CR
Lead	0.033	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1246	CR
Manganese	1.0	0.025		mg/L	100	08/03/2021 1045	08/04/2021 1436	CR
Molybdenum	0.0076	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1246	CR
Nickel	0.014	0.00050	B7	mg/L	1	08/03/2021 1045	08/04/2021 1246	CR
Selenium	0.0087	0.0025		mg/L	1	08/03/2021 1045	08/04/2021 1246	CR
Silver	0.0038	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1246	CR
Thallium	0.00019	0.00050	E4	mg/L	1	08/03/2021 1045	08/04/2021 1246	CR
Uranium	0.0018	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1246	CR
Zinc	0.19	0.040		mg/L	1	08/03/2021 1045	08/04/2021 1246	CR
CVAA Total Mercury-E245.1								
Mercury	ND	0.0010	E8	mg/L	1	08/04/2021 0819	08/04/2021 1302	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
Lab Sample ID: 21G0635-05

Client Sample ID: D4.072221
Collection Date/Time: 07/22/2021 2000
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst	
Anions by Ion Chromatography-E300.0 (2.1)									
Chloride	1.1	1.0		mg/L	1	07/23/2021 1638	07/23/2021 2147	JG	
Fluoride	ND	0.50		mg/L	1	07/23/2021 1638	07/23/2021 2147	JG	
Nitrogen, Nitrate (As N)	0.74	0.50		mg/L	1	07/23/2021 1638	07/23/2021 2147	JG	
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	07/23/2021 1638	07/23/2021 2147	JG	
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50	C4	mg/L	1	07/23/2021 1638	07/29/2021 0428	JG	
Sulfate	8.8	5.0		mg/L	1	07/23/2021 1638	07/23/2021 2147	JG	
Calculation-Ion Balance									
Anion	3.02			meq/L	1	08/09/2021 1549	08/09/2021 1550	KB	
Cation	1.20			meq/L	1	08/09/2021 1549	08/09/2021 1550	KB	
Cation/Anion, % Difference	43.0			meq/L	1	08/09/2021 1549	08/09/2021 1550	KB	
Total Kjeldahl Nitrogen-PAI-DK01									
Nitrogen, Total Kjeldahl	7.2	5.0		mg/L	10	07/29/2021 1630	08/03/2021 1340	JG	
Alkalinity-SM2320B									
Alkalinity, Bicarbonate (As CaCO3)	130	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ	
Alkalinity, Carbonate (As CaCO3)	ND	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ	
Alkalinity, Hydroxide (As CaCO3)	ND	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ	
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ	
Alkalinity, Total (As CaCO3)	130	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ	
Specific Conductance-SM2510 B									
Conductivity	120	0.10		µmhos/cm	1	07/30/2021 1615	07/30/2021 1637	CWB	
Total Dissolved Solids (Residue, Filterable)-SM2540 C									
Total Dissolved Solids (Residue, Filterable)	150	20		mg/L	1	07/27/2021 0831	07/28/2021 1602	JG	
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D									
Total Suspended Solids	260	10		mg/L	1	07/26/2021 0839	07/27/2021 0830	JG	
Ammonia as N-SM4500-NH3 B,C									

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
Lab Sample ID: 21G0635-05

Client Sample ID: D4.072221
Collection Date/Time: 07/22/2021 2000
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Nitrogen, Ammonia (As N)	ND	0.50		mg/L	1	07/28/2021 1030	07/28/2021 1359	JG
Silica-SM4500-SiO2 C								
Silica	5.8	2.0		mg/L	1	07/29/2021 1000	07/29/2021 1325	EJ

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
Lab Sample ID: 21G0635-06

Client Sample ID: D4a1.072221
Collection Date/Time: 07/22/2021 2000
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]								
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	92	22		mg/L	1	07/29/2021 1805	07/30/2021 1641	CR
Hardness-Calculation								
Hardness, Calcium/Magnesium (As CaCO3)	610			mg/L	1	08/05/2021 0802	08/06/2021 0945	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation								
Nitrogen, Total	11			mg/L	10	07/29/2021 1630	08/03/2021 1340	JG
Nitrate + Nitrite Sum-Calculation								
Nitrate and Nitrite Sum	0.95	0.10		mg/L	1	07/23/2021 1638	07/23/2021 2206	JG
ICP Dissolved Metals-E 200.7 (4.4)								
Boron	0.043	0.10		mg/L	1	07/29/2021 1805	07/30/2021 1641	CR
Calcium	37	4.0		mg/L	1	07/29/2021 1805	07/30/2021 1641	CR
Iron	ND	0.30		mg/L	1	07/29/2021 1805	07/30/2021 1641	CR
Magnesium	ND	3.0		mg/L	1	07/29/2021 1805	07/30/2021 1641	CR
Potassium	ND	5.0		mg/L	1	07/29/2021 1805	07/30/2021 1641	CR
Silica	7.2	0.20		mg/L	1	07/29/2021 1805	07/30/2021 1641	CR
Sodium	ND	5.0		mg/L	1	07/29/2021 1805	07/30/2021 1641	CR
ICP/MS Dissolved Metals-E 200.8 (5.4)								
Aluminum	ND	0.0400		mg/L	1	07/29/2021 1805	08/02/2021 1629	CR
Antimony	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1526	CR
Arsenic	0.00057	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1526	CR
Barium	0.023	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1526	CR
Beryllium	ND	0.00025		mg/L	1	07/29/2021 1805	08/02/2021 1629	CR
Cadmium	ND	0.00025		mg/L	1	07/29/2021 1805	07/30/2021 1526	CR
Chromium	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1526	CR
Cobalt	0.00031	0.00025		mg/L	1	07/29/2021 1805	07/30/2021 1526	CR
Copper	0.096	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1526	CR
Lead	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1526	CR
Manganese	0.17	0.00025		mg/L	1	07/29/2021 1805	07/30/2021 1526	CR
Molybdenum	0.020	0.00025		mg/L	1	07/29/2021 1805	08/02/2021 1629	CR
Nickel	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1526	CR
Selenium	0.00062	0.0025	E4	mg/L	1	07/29/2021 1805	07/30/2021 1526	CR
Silver	0.000093	0.00050	E4	mg/L	1	07/29/2021 1805	07/30/2021 1526	CR
Thallium	ND	0.00050	E8	mg/L	1	07/29/2021 1805	07/30/2021 1526	CR
Zinc	ND	0.040		mg/L	1	07/29/2021 1805	07/30/2021 1526	CR

CVAA Dissolved Mercury-E 245.1

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
Lab Sample ID: 21G0635-06

Client Sample ID: D4a1.072221
Collection Date/Time: 07/22/2021 2000
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Mercury	ND	0.0010	E8	mg/L	1	08/02/2021 0858	08/02/2021 1333	MH
pH-E150.1								
pH (pH Units)	7.5		H5	-	1	07/30/2021 1615	07/30/2021 1626	CWB
Temperature (°C)	21		H5	-	1	07/30/2021 1615	07/30/2021 1626	CWB
Turbidity-E180.1								
Turbidity	3000	100	H3	NTU	1000	07/27/2021 1600	07/27/2021 1655	CWB
ICP Total Metals-E200.7 (4.4)								
Boron	0.15	0.10		mg/L	1	08/05/2021 0802	08/06/2021 0945	MH
Calcium	200	4.0		mg/L	1	08/05/2021 0802	08/06/2021 0945	MH
Iron	53	0.30		mg/L	1	08/05/2021 0802	08/06/2021 0945	MH
Magnesium	29	3.0		mg/L	1	08/05/2021 0802	08/06/2021 0945	MH
Potassium	12	5.0		mg/L	1	08/05/2021 0802	08/06/2021 0945	MH
Silica	140	2.0		mg/L	10	08/05/2021 0802	08/06/2021 1009	MH
Sodium	ND	5.0		mg/L	1	08/05/2021 0802	08/06/2021 0945	MH
ICP/MS Total Metals-E200.8 (5.4)								
Aluminum	30.8	4.00		mg/L	100	08/03/2021 1045	08/04/2021 1440	CR
Antimony	0.00057	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1249	CR
Arsenic	0.011	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1249	CR
Barium	0.24	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1249	CR
Beryllium	0.0036	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1249	CR
Cadmium	0.0028	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1249	CR
Chromium	0.034	0.00050	B7	mg/L	1	08/03/2021 1045	08/04/2021 1249	CR
Cobalt	0.0191	0.000250		mg/L	1	08/03/2021 1045	08/04/2021 1249	CR
Copper	9.6	0.050		mg/L	100	08/03/2021 1045	08/04/2021 1440	CR
Lead	0.10	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1249	CR
Manganese	2.8	0.025		mg/L	100	08/03/2021 1045	08/04/2021 1440	CR
Molybdenum	0.042	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1249	CR
Nickel	0.038	0.00050	B7	mg/L	1	08/03/2021 1045	08/04/2021 1249	CR
Selenium	0.038	0.0025		mg/L	1	08/03/2021 1045	08/04/2021 1249	CR
Silver	0.011	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1249	CR
Thallium	0.00056	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1249	CR
Uranium	0.0048	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1249	CR
Zinc	0.58	0.040		mg/L	1	08/03/2021 1045	08/04/2021 1249	CR
CVAA Total Mercury-E245.1								
Mercury	0.00039	0.0010	E4	mg/L	1	08/04/2021 0819	08/04/2021 1305	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
Lab Sample ID: 21G0635-06

Client Sample ID: D4a1.072221
Collection Date/Time: 07/22/2021 2000
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)								
Chloride	1.1	1.0		mg/L	1	07/23/2021 1638	07/23/2021 2206	JG
Fluoride	ND	0.50		mg/L	1	07/23/2021 1638	07/23/2021 2206	JG
Nitrogen, Nitrate (As N)	0.95	0.50		mg/L	1	07/23/2021 1638	07/23/2021 2206	JG
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	07/23/2021 1638	07/23/2021 2206	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50	C4	mg/L	1	07/23/2021 1638	07/29/2021 0447	JG
Sulfate	33	5.0		mg/L	1	07/23/2021 1638	07/23/2021 2206	JG
Calculation-Ion Balance								
Anion	10.1			meq/L	1	08/09/2021 1549	08/09/2021 1550	KB
Cation	1.86			meq/L	1	08/09/2021 1549	08/09/2021 1550	KB
Cation/Anion, % Difference	69.1			meq/L	1	08/09/2021 1549	08/09/2021 1550	KB
Total Kjeldahl Nitrogen-PAI-DK01								
Nitrogen, Total Kjeldahl	9.8	5.0		mg/L	10	07/29/2021 1630	08/03/2021 1340	JG
Alkalinity-SM2320B								
Alkalinity, Bicarbonate (As CaCO3)	460	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Alkalinity, Carbonate (As CaCO3)	ND	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Alkalinity, Hydroxide (As CaCO3)	ND	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Alkalinity, Total (As CaCO3)	460	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Specific Conductance-SM2510 B								
Conductivity	220	0.10		µmhos/cm	1	07/30/2021 1615	07/30/2021 1637	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C								
Total Dissolved Solids (Residue, Filterable)	89	20		mg/L	1	07/27/2021 0831	07/29/2021 0937	JG
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D								
Total Suspended Solids	5500	10		mg/L	1	07/26/2021 0839	07/27/2021 0830	JG
Ammonia as N-SM4500-NH3 B,C								

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
Lab Sample ID: 21G0635-06

Client Sample ID: D4a1.072221
Collection Date/Time: 07/22/2021 2000
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Nitrogen, Ammonia (As N)	ND	0.50		mg/L	1	07/28/2021 1030	07/28/2021 1359	JG
Silica-SM4500-SiO2 C								
Silica	6.0	2.0		mg/L	1	07/29/2021 1000	07/29/2021 1325	EJ

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
Lab Sample ID: 21G0635-07

Client Sample ID: D4a2.072221
Collection Date/Time: 07/22/2021 2000
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]								
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	65	22		mg/L	1	07/29/2021 1805	07/30/2021 1645	CR
Hardness-Calculation								
Hardness, Calcium/Magnesium (As CaCO3)	710			mg/L	1	08/05/2021 0802	08/06/2021 0948	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation								
Nitrogen, Total	55			mg/L	10	07/29/2021 1630	08/03/2021 1340	JG
Nitrate + Nitrite Sum-Calculation								
Nitrate and Nitrite Sum	0.60	0.10		mg/L	1	07/23/2021 1638	07/23/2021 2224	JG
ICP Dissolved Metals-E 200.7 (4.4)								
Boron	0.022	0.10		mg/L	1	07/29/2021 1805	07/30/2021 1645	CR
Calcium	26	4.0		mg/L	1	07/29/2021 1805	07/30/2021 1645	CR
Iron	ND	0.30		mg/L	1	07/29/2021 1805	07/30/2021 1645	CR
Magnesium	ND	3.0		mg/L	1	07/29/2021 1805	07/30/2021 1645	CR
Potassium	ND	5.0		mg/L	1	07/29/2021 1805	07/30/2021 1645	CR
Silica	3.9	0.20		mg/L	1	07/29/2021 1805	07/30/2021 1645	CR
Sodium	ND	5.0		mg/L	1	07/29/2021 1805	07/30/2021 1645	CR
ICP/MS Dissolved Metals-E 200.8 (5.4)								
Aluminum	ND	0.0400		mg/L	1	07/29/2021 1805	08/02/2021 1633	CR
Antimony	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1529	CR
Arsenic	0.0010	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1529	CR
Barium	0.019	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1529	CR
Beryllium	ND	0.00025		mg/L	1	07/29/2021 1805	08/02/2021 1633	CR
Cadmium	ND	0.00025		mg/L	1	07/29/2021 1805	07/30/2021 1529	CR
Chromium	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1529	CR
Cobalt	ND	0.00025		mg/L	1	07/29/2021 1805	07/30/2021 1529	CR
Copper	0.019	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1529	CR
Lead	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1529	CR
Manganese	0.023	0.00025		mg/L	1	07/29/2021 1805	07/30/2021 1529	CR
Molybdenum	0.0048	0.00025		mg/L	1	07/29/2021 1805	08/02/2021 1633	CR
Nickel	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1529	CR
Selenium	0.00027	0.0025	E4	mg/L	1	07/29/2021 1805	07/30/2021 1529	CR
Silver	ND	0.00050	E8	mg/L	1	07/29/2021 1805	07/30/2021 1529	CR
Thallium	ND	0.00050	E8	mg/L	1	07/29/2021 1805	07/30/2021 1529	CR
Zinc	ND	0.040		mg/L	1	07/29/2021 1805	07/30/2021 1529	CR

CVAA Dissolved Mercury-E 245.1

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
Lab Sample ID: 21G0635-07

Client Sample ID: D4a2.072221
Collection Date/Time: 07/22/2021 2000
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst	
Mercury	ND	0.0010	E8	mg/L	1	08/02/2021 0858	08/02/2021 1335	MH	
pH-E150.1									
pH (pH Units)	8.0		H5	-	1	07/30/2021 1615	07/30/2021 1629	CWB	
Temperature (°C)	21		H5	-	1	07/30/2021 1615	07/30/2021 1629	CWB	
Turbidity-E180.1									
Turbidity	1100	10	H3	NTU	100	07/27/2021 1600	07/27/2021 1655	CWB	
ICP Total Metals-E200.7 (4.4)									
Boron	0.034	0.10	E4	mg/L	1	08/05/2021 0802	08/06/2021 0948	MH	
Calcium	270	4.0		mg/L	1	08/05/2021 0802	08/06/2021 0948	MH	
Iron	4.5	0.30		mg/L	1	08/05/2021 0802	08/06/2021 0948	MH	
Magnesium	11	3.0		mg/L	1	08/05/2021 0802	08/06/2021 0948	MH	
Potassium	ND	5.0		mg/L	1	08/05/2021 0802	08/06/2021 0948	MH	
Silica	34	0.20		mg/L	1	08/05/2021 0802	08/06/2021 0948	MH	
Sodium	ND	5.0		mg/L	1	08/05/2021 0802	08/06/2021 0948	MH	
ICP/MS Total Metals-E200.8 (5.4)									
Aluminum	6.40	2.00		mg/L	50	08/03/2021 1045	08/04/2021 1443	CR	
Antimony	ND	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1253	CR	
Arsenic	0.0045	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1253	CR	
Barium	0.072	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1253	CR	
Beryllium	0.00050	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1253	CR	
Cadmium	0.00090	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1253	CR	
Chromium	0.013	0.00050	B5	mg/L	1	08/03/2021 1045	08/04/2021 1253	CR	
Cobalt	0.00362	0.000250		mg/L	1	08/03/2021 1045	08/04/2021 1253	CR	
Copper	0.22	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1253	CR	
Lead	0.036	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1253	CR	
Manganese	0.46	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1253	CR	
Molybdenum	0.0038	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1253	CR	
Nickel	0.014	0.00050	B7	mg/L	1	08/03/2021 1045	08/04/2021 1253	CR	
Selenium	0.0047	0.0025		mg/L	1	08/03/2021 1045	08/04/2021 1253	CR	
Silver	0.00029	0.00050	E4	mg/L	1	08/03/2021 1045	08/04/2021 1253	CR	
Thallium	0.00014	0.00050	E4	mg/L	1	08/03/2021 1045	08/04/2021 1253	CR	
Uranium	0.00081	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1253	CR	
Zinc	0.14	0.040		mg/L	1	08/03/2021 1045	08/04/2021 1253	CR	
CVAA Total Mercury-E245.1									
Mercury	ND	0.0010	E8	mg/L	1	08/04/2021 0819	08/04/2021 1308	CR	

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
Lab Sample ID: 21G0635-07

Client Sample ID: D4a2.072221
Collection Date/Time: 07/22/2021 2000
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)								
Chloride	ND	1.0		mg/L	1	07/23/2021 1638	07/23/2021 2224	JG
Fluoride	ND	0.50		mg/L	1	07/23/2021 1638	07/23/2021 2224	JG
Nitrogen, Nitrate (As N)	0.60	0.50		mg/L	1	07/23/2021 1638	07/23/2021 2224	JG
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	07/23/2021 1638	07/23/2021 2224	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50	C4	mg/L	1	07/23/2021 1638	07/28/2021 2255	JG
Sulfate	8.2	5.0		mg/L	1	07/23/2021 1638	07/23/2021 2224	JG
Calculation-Ion Balance								
Anion	14.5			meq/L	1	08/09/2021 1549	08/09/2021 1550	KB
Cation	1.30			meq/L	1	08/09/2021 1549	08/09/2021 1550	KB
Cation/Anion, % Difference	83.6			meq/L	1	08/09/2021 1549	08/09/2021 1550	KB
Total Kjeldahl Nitrogen-PAI-DK01								
Nitrogen, Total Kjeldahl	54	5.0		mg/L	10	07/29/2021 1630	08/03/2021 1340	JG
Alkalinity-SM2320B								
Alkalinity, Bicarbonate (As CaCO3)	710	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Alkalinity, Carbonate (As CaCO3)	ND	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Alkalinity, Hydroxide (As CaCO3)	ND	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Alkalinity, Total (As CaCO3)	710	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Specific Conductance-SM2510 B								
Conductivity	110	0.10		µmhos/cm	1	07/30/2021 1615	07/30/2021 1637	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C								
Total Dissolved Solids (Residue, Filterable)	350	20		mg/L	1	07/27/2021 0831	07/28/2021 1602	JG
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D								
Total Suspended Solids	800	10		mg/L	1	07/26/2021 0839	07/27/2021 0830	JG
Ammonia as N-SM4500-NH3 B,C								

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
Lab Sample ID: 21G0635-07

Client Sample ID: D4a2.072221
Collection Date/Time: 07/22/2021 2000
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Nitrogen, Ammonia (As N)	ND	0.50		mg/L	1	07/28/2021 1030	07/28/2021 1359	JG
Silica-SM4500-SiO2 C								
Silica	3.0	2.0		mg/L	1	07/29/2021 1000	07/29/2021 1325	EJ

Client: Rosemont Copper Company
 Project: Baseline Stormwater Monitoring
 Work Order: 21G0635
 Lab Sample ID: 21G0635-08

Client Sample ID: D32.072221
 Collection Date/Time: 07/22/2021 2000
 Matrix: Storm Water
 Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]								
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	29	22		mg/L	1	07/29/2021 1805	07/30/2021 1648	CR
Hardness-Calculation								
Hardness, Calcium/Magnesium (As CaCO3)	1700			mg/L	1	08/05/2021 0802	08/06/2021 0930	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation								
Nitrogen, Total	44			mg/L	10	07/29/2021 1630	08/03/2021 1340	JG
Nitrate + Nitrite Sum-Calculation								
Nitrate and Nitrite Sum	0.80	0.10		mg/L	1	07/23/2021 1638	07/23/2021 2242	JG
ICP Dissolved Metals-E 200.7 (4.4)								
Boron	0.027	0.10		mg/L	1	07/29/2021 1805	07/30/2021 1648	CR
Calcium	12	4.0		mg/L	1	07/29/2021 1805	07/30/2021 1648	CR
Iron	ND	0.30		mg/L	1	07/29/2021 1805	07/30/2021 1648	CR
Magnesium	ND	3.0		mg/L	1	07/29/2021 1805	07/30/2021 1648	CR
Potassium	23	5.0		mg/L	1	07/29/2021 1805	07/30/2021 1648	CR
Silica	3.0	0.20		mg/L	1	07/29/2021 1805	07/30/2021 1648	CR
Sodium	ND	5.0		mg/L	1	07/29/2021 1805	07/30/2021 1648	CR
ICP/MS Dissolved Metals-E 200.8 (5.4)								
Aluminum	ND	0.0400		mg/L	1	07/29/2021 1805	08/02/2021 1636	CR
Antimony	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1533	CR
Arsenic	0.0029	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1533	CR
Barium	0.020	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1533	CR
Beryllium	ND	0.00025		mg/L	1	07/29/2021 1805	08/02/2021 1636	CR
Cadmium	ND	0.00025		mg/L	1	07/29/2021 1805	07/30/2021 1533	CR
Chromium	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1533	CR
Cobalt	0.00059	0.00025		mg/L	1	07/29/2021 1805	07/30/2021 1533	CR
Copper	0.033	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1533	CR
Lead	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1533	CR
Manganese	0.030	0.00025		mg/L	1	07/29/2021 1805	07/30/2021 1533	CR
Molybdenum	0.0064	0.00025		mg/L	1	07/29/2021 1805	08/02/2021 1636	CR
Nickel	0.0017	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1533	CR
Selenium	ND	0.0025	E8	mg/L	1	07/29/2021 1805	07/30/2021 1533	CR
Silver	ND	0.00050	E8	mg/L	1	07/29/2021 1805	07/30/2021 1533	CR
Thallium	0.000038	0.00050	E4	mg/L	1	07/29/2021 1805	07/30/2021 1533	CR
Zinc	ND	0.040		mg/L	1	07/29/2021 1805	07/30/2021 1533	CR

CVAA Dissolved Mercury-E 245.1

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
Lab Sample ID: 21G0635-08

Client Sample ID: D32.072221
Collection Date/Time: 07/22/2021 2000
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Mercury	ND	0.0010	E8	mg/L	1	08/02/2021 0858	08/02/2021 1338	MH
pH-E150.1								
pH (pH Units)	8.2		H5	-	1	07/30/2021 1615	07/30/2021 1631	CWB
Temperature (°C)	21		H5	-	1	07/30/2021 1615	07/30/2021 1631	CWB
Turbidity-E180.1								
Turbidity	1500	10	H3	NTU	100	07/27/2021 1600	07/27/2021 1655	CWB
ICP Total Metals-E200.7 (4.4)								
Boron	0.066	0.50	E4	mg/L	1	08/05/2021 0802	08/06/2021 0930	MH
Calcium	650	20		mg/L	1	08/05/2021 0802	08/06/2021 0930	MH
Iron	9.8	1.5	M6	mg/L	1	08/05/2021 0802	08/06/2021 0930	MH
Magnesium	26	15		mg/L	1	08/05/2021 0802	08/06/2021 0930	MH
Potassium	29	25		mg/L	1	08/05/2021 0802	08/06/2021 0930	MH
Silica	70	1.0		mg/L	1	08/05/2021 0802	08/06/2021 0930	MH
Sodium	ND	25	D5	mg/L	1	08/05/2021 0802	08/06/2021 0930	MH
ICP/MS Total Metals-E200.8 (5.4)								
Aluminum	13.7	4.00		mg/L	20	08/03/2021 1045	08/04/2021 1403	CR
Antimony	ND	0.0025		mg/L	1	08/03/2021 1045	08/04/2021 1213	CR
Arsenic	0.014	0.0025		mg/L	1	08/03/2021 1045	08/04/2021 1213	CR
Barium	0.17	0.0025		mg/L	1	08/03/2021 1045	08/04/2021 1213	CR
Beryllium	ND	0.0013		mg/L	1	08/03/2021 1045	08/04/2021 1213	CR
Cadmium	0.0017	0.0013		mg/L	1	08/03/2021 1045	08/04/2021 1213	CR
Chromium	0.048	0.0025	B5	mg/L	1	08/03/2021 1045	08/04/2021 1213	CR
Cobalt	0.00861	0.00125		mg/L	1	08/03/2021 1045	08/04/2021 1213	CR
Copper	0.25	0.0025		mg/L	1	08/03/2021 1045	08/04/2021 1213	CR
Lead	0.089	0.0025		mg/L	1	08/03/2021 1045	08/04/2021 1213	CR
Manganese	1.0	0.0013		mg/L	1	08/03/2021 1045	08/04/2021 1213	CR
Molybdenum	0.011	0.0013		mg/L	1	08/03/2021 1045	08/04/2021 1213	CR
Nickel	0.047	0.0025	B7	mg/L	1	08/03/2021 1045	08/04/2021 1213	CR
Selenium	0.0087	0.013	E4	mg/L	1	08/03/2021 1045	08/04/2021 1213	CR
Silver	0.00046	0.0025	E4	mg/L	1	08/03/2021 1045	08/04/2021 1213	CR
Thallium	0.00060	0.0025	E4	mg/L	1	08/03/2021 1045	08/04/2021 1213	CR
Uranium	0.0015	0.0025	E4	mg/L	1	08/03/2021 1045	08/04/2021 1213	CR
Zinc	0.37	0.20		mg/L	1	08/03/2021 1045	08/04/2021 1213	CR
CVAA Total Mercury-E245.1								
Mercury	ND	0.0050	E8	mg/L	1	08/04/2021 0819	08/04/2021 1315	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
Lab Sample ID: 21G0635-08

Client Sample ID: D32.072221
Collection Date/Time: 07/22/2021 2000
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)								
Chloride	1.2	1.0		mg/L	1	07/23/2021 1638	07/23/2021 2242	JG
Fluoride	ND	0.50		mg/L	1	07/23/2021 1638	07/23/2021 2242	JG
Nitrogen, Nitrate (As N)	0.80	0.50		mg/L	1	07/23/2021 1638	07/23/2021 2242	JG
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	07/23/2021 1638	07/23/2021 2242	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50	C4	mg/L	1	07/23/2021 1638	07/28/2021 2313	JG
Sulfate	7.2	5.0		mg/L	1	07/23/2021 1638	07/23/2021 2242	JG
Calculation-Ion Balance								
Anion	28.3			meq/L	1	08/09/2021 1549	08/09/2021 1550	KB
Cation	1.19			meq/L	1	08/09/2021 1549	08/09/2021 1550	KB
Cation/Anion, % Difference	91.9			meq/L	1	08/09/2021 1549	08/09/2021 1550	KB
Total Kjeldahl Nitrogen-PAI-DK01								
Nitrogen, Total Kjeldahl	44	5.0		mg/L	10	07/29/2021 1630	08/03/2021 1340	JG
Alkalinity-SM2320B								
Alkalinity, Bicarbonate (As CaCO3)	1400	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Alkalinity, Carbonate (As CaCO3)	ND	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Alkalinity, Hydroxide (As CaCO3)	ND	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Alkalinity, Total (As CaCO3)	1400	2.0		mg/L	1	07/30/2021 1440	07/30/2021 1715	EJ
Specific Conductance-SM2510 B								
Conductivity	110	0.10		µmhos/cm	1	07/30/2021 1615	07/30/2021 1637	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C								
Total Dissolved Solids (Residue, Filterable)	190	20		mg/L	1	07/27/2021 0831	07/28/2021 1602	JG
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D								
Total Suspended Solids	3900	10		mg/L	1	07/26/2021 0839	07/27/2021 0830	JG
Ammonia as N-SM4500-NH3 B,C								

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
Lab Sample ID: 21G0635-08

Client Sample ID: D32.072221
Collection Date/Time: 07/22/2021 2000
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Nitrogen, Ammonia (As N)	3.8	0.50		mg/L	1	07/28/2021 1030	07/28/2021 1359	JG
Silica-SM4500-SiO2 C								
Silica	2.6	2.0		mg/L	1	07/29/2021 1000	07/29/2021 1325	EJ

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
Date Received: 07/23/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2107361 - E 245.1										
Blank (2107361-BLK1)				Prepared & Analyzed: 07/30/2021						
Mercury	ND	0.0010	mg/L							
LCS (2107361-BS1)				Prepared & Analyzed: 07/30/2021						
Mercury	0.0051	0.0010	mg/L	0.005000		103	85-115			
LCS Dup (2107361-BSD1)				Prepared & Analyzed: 07/30/2021						
Mercury	0.0051	0.0010	mg/L	0.005000		103	85-115	0.1	20	
Matrix Spike (2107361-MS1)				Source: 21G0609-01		Prepared & Analyzed: 07/30/2021				
Mercury	0.0051	0.0010	mg/L	0.005000	ND	102	70-130			
Matrix Spike Dup (2107361-MSD1)				Source: 21G0609-01		Prepared & Analyzed: 07/30/2021				
Mercury	0.0051	0.0010	mg/L	0.005000	ND	101	70-130	0.8	20	
Batch 2107362 - E 200.7 (4.4)										
Blank (2107362-BLK1)				Prepared & Analyzed: 07/30/2021						
Boron	ND	0.10	mg/L							
Calcium	ND	4.0	mg/L							
Iron	ND	0.30	mg/L							
Magnesium	ND	3.0	mg/L							
Potassium	ND	5.0	mg/L							
Silica	ND	0.20	mg/L							
Sodium	ND	5.0	mg/L							
LCS (2107362-BS1)				Prepared & Analyzed: 07/30/2021						
Boron	0.96	0.10	mg/L	1.000		96	85-115			
Calcium	10	4.0	mg/L	10.00		104	85-115			
Iron	0.98	0.30	mg/L	1.000		98	85-115			
Magnesium	9.8	3.0	mg/L	10.00		98	85-115			
Potassium	9.6	5.0	mg/L	10.00		96	85-115			
Sodium	10	5.0	mg/L	10.00		100	85-115			
LCS (2107362-BS3)				Prepared & Analyzed: 07/30/2021						
Potassium	ND	5.0	mg/L				85-115			
Silica	2.1	0.20	mg/L	2.143		97	85-115			
LCS Dup (2107362-BSD1)				Prepared & Analyzed: 07/30/2021						
Boron	0.97	0.10	mg/L	1.000		97	85-115	0.07	20	
Calcium	10	4.0	mg/L	10.00		103	85-115	0.6	20	
Iron	0.97	0.30	mg/L	1.000		97	85-115	0.4	20	
Magnesium	9.8	3.0	mg/L	10.00		98	85-115	0.4	20	
Potassium	9.7	5.0	mg/L	10.00		97	85-115	0.5	20	
Sodium	10	5.0	mg/L	10.00		100	85-115	0.1	20	
LCS Dup (2107362-BSD3)				Prepared & Analyzed: 07/30/2021						
Potassium	ND	5.0	mg/L				85-115		20	
Silica	2.0	0.20	mg/L	2.143		96	85-115	2	20	

Client: Rosemont Copper Company
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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2107362 - E 200.7 (4.4)										
Matrix Spike (2107362-MS1)			Source: 21G0429-01		Prepared & Analyzed: 07/30/2021					
Boron	1.1	0.10	mg/L	1.000	0.026	112	70-130			
Calcium	42	4.0	mg/L	10.00	33	95	70-130			
Iron	1.0	0.30	mg/L	1.000	0.012	101	70-130			
Magnesium	12	3.0	mg/L	10.00	2.5	98	70-130			
Potassium	13	5.0	mg/L	10.00	3.8	94	70-130			
Sodium	11	5.0	mg/L	10.00	0.91	105	70-130			
Matrix Spike (2107362-MS2)			Source: 21G0609-02		Prepared & Analyzed: 07/30/2021					
Boron	1.2	0.10	mg/L	1.000	0.10	109	70-130			
Calcium	58	4.0	mg/L	10.00	48	93	70-130			
Iron	1.0	0.30	mg/L	1.000	0.0092	103	70-130			
Magnesium	16	3.0	mg/L	10.00	5.9	99	70-130			
Potassium	22	5.0	mg/L	10.00	13	92	70-130			
Sodium	37	5.0	mg/L	10.00	28	97	70-130			
Matrix Spike (2107362-MS3)			Source: 21G0612-01		Prepared & Analyzed: 07/30/2021					
Potassium	9.7	5.0	mg/L		9.7		70-130			
Silica	13	0.20	mg/L		11		70-130			
Matrix Spike (2107362-MS4)			Source: 21G0635-03		Prepared & Analyzed: 07/30/2021					
Potassium	ND	5.0	mg/L		4.3		70-130			
Silica	5.9	0.20	mg/L		3.8		70-130			
Batch 2107364 - E 200.8 (5.4)										
Blank (2107364-BLK1)			Prepared & Analyzed: 07/30/2021							
Aluminum	ND	0.0400	mg/L							
Antimony	ND	0.00050	mg/L							
Arsenic	ND	0.00050	mg/L							
Barium	ND	0.00050	mg/L							
Beryllium	ND	0.00025	mg/L							
Cadmium	ND	0.00025	mg/L							
Chromium	ND	0.00050	mg/L							
Cobalt	ND	0.00025	mg/L							
Copper	ND	0.00050	mg/L							
Lead	ND	0.00050	mg/L							
Manganese	ND	0.00025	mg/L							
Molybdenum	ND	0.00025	mg/L							
Nickel	ND	0.00050	mg/L							
Selenium	ND	0.0025	mg/L							
Silver	0.000082	0.00050	mg/L							
Thallium	ND	0.00050	mg/L							
Zinc	ND	0.040	mg/L							

Client: Rosemont Copper Company
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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2107364 - E 200.8 (5.4)										
LCS (2107364-BS1)				Prepared & Analyzed: 07/30/2021						
Aluminum	0.100	0.0400	mg/L	0.1000		100	85-115			
Antimony	0.052	0.00050	mg/L	0.05000		104	85-115			
Arsenic	0.049	0.00050	mg/L	0.05000		97	85-115			
Barium	0.049	0.00050	mg/L	0.05000		97	85-115			
Beryllium	0.048	0.00025	mg/L	0.05000		96	85-115			
Cadmium	0.052	0.00025	mg/L	0.05000		105	85-115			
Chromium	0.049	0.00050	mg/L	0.05000		97	85-115			
Cobalt	0.048	0.00025	mg/L	0.05000		96	85-115			
Copper	0.049	0.00050	mg/L	0.05000		97	85-115			
Lead	0.048	0.00050	mg/L	0.05000		97	85-115			
Manganese	0.049	0.00025	mg/L	0.05000		98	85-115			
Molybdenum	0.050	0.00025	mg/L	0.05000		101	85-115			
Nickel	0.047	0.00050	mg/L	0.05000		94	85-115			
Selenium	0.049	0.0025	mg/L	0.05000		98	85-115			
Silver	0.044	0.00050	mg/L	0.05000		89	85-115			
Thallium	0.047	0.00050	mg/L	0.05000		94	85-115			
Zinc	0.11	0.040	mg/L	0.1000		106	85-115			
LCS Dup (2107364-BSD1)				Prepared & Analyzed: 07/30/2021						
Aluminum	0.0992	0.0400	mg/L	0.1000		99	85-115	0.8	20	
Antimony	0.051	0.00050	mg/L	0.05000		101	85-115	2	20	
Arsenic	0.049	0.00050	mg/L	0.05000		98	85-115	0.8	20	
Barium	0.048	0.00050	mg/L	0.05000		96	85-115	1	20	
Beryllium	0.049	0.00025	mg/L	0.05000		97	85-115	0.7	20	
Cadmium	0.050	0.00025	mg/L	0.05000		100	85-115	5	20	
Chromium	0.049	0.00050	mg/L	0.05000		97	85-115	0.4	20	
Cobalt	0.049	0.00025	mg/L	0.05000		97	85-115	1	20	
Copper	0.048	0.00050	mg/L	0.05000		96	85-115	0.7	20	
Lead	0.049	0.00050	mg/L	0.05000		97	85-115	0.4	20	
Manganese	0.049	0.00025	mg/L	0.05000		98	85-115	0.2	20	
Molybdenum	0.050	0.00025	mg/L	0.05000		99	85-115	2	20	
Nickel	0.047	0.00050	mg/L	0.05000		94	85-115	0.9	20	
Selenium	0.050	0.0025	mg/L	0.05000		100	85-115	2	20	
Silver	0.044	0.00050	mg/L	0.05000		89	85-115	0.04	20	
Thallium	0.047	0.00050	mg/L	0.05000		94	85-115	0.8	20	
Zinc	0.10	0.040	mg/L	0.1000		105	85-115	1	20	

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2107364 - E 200.8 (5.4)										
Matrix Spike (2107364-MS1)			Source: 21G0481-01		Prepared & Analyzed: 07/30/2021					
Aluminum	0.115	0.0400	mg/L	0.1000	ND	115	70-130			
Antimony	0.064	0.00050	mg/L	0.05000	0.0074	114	70-130			
Arsenic	0.060	0.00050	mg/L	0.05000	0.0046	111	70-130			
Barium	0.15	0.00050	mg/L	0.05000	0.094	106	70-130			
Beryllium	0.053	0.00025	mg/L	0.05000	0.000019	106	70-130			
Cadmium	0.053	0.00025	mg/L	0.05000	ND	106	70-130			
Chromium	0.052	0.00050	mg/L	0.05000	0.00028	103	70-130			
Cobalt	0.051	0.00025	mg/L	0.05000	0.00025	101	70-130			
Copper	0.057	0.00050	mg/L	0.05000	0.0083	97	70-130			
Lead	0.054	0.00050	mg/L	0.05000	0.00013	108	70-130			
Manganese	0.080	0.00025	mg/L	0.05000	0.026	106	70-130			
Molybdenum	0.061	0.00025	mg/L	0.05000	0.0057	110	70-130			
Nickel	0.049	0.00050	mg/L	0.05000	0.00053	97	70-130			
Selenium	0.058	0.0025	mg/L	0.05000	0.00064	115	70-130			
Silver	0.049	0.00050	mg/L	0.05000	0.00012	97	70-130			
Thallium	0.054	0.00050	mg/L	0.05000	0.000028	109	70-130			
Zinc	0.11	0.040	mg/L	0.1000	ND	114	70-130			
Matrix Spike (2107364-MS2)										
Source: 21G0635-01			Prepared & Analyzed: 07/30/2021							
Aluminum	0.121	0.0400	mg/L	0.1000	0.0139	107	70-130			
Antimony	0.056	0.00050	mg/L	0.05000	0.000084	113	70-130			
Arsenic	0.057	0.00050	mg/L	0.05000	0.00016	113	70-130			
Barium	0.076	0.00050	mg/L	0.05000	0.020	111	70-130			
Beryllium	0.052	0.00025	mg/L	0.05000	0.000077	103	70-130			
Cadmium	0.057	0.00025	mg/L	0.05000	0.0017	111	70-130			
Chromium	0.053	0.00050	mg/L	0.05000	0.00011	106	70-130			
Cobalt	0.061	0.00025	mg/L	0.05000	0.0098	103	70-130			
Copper	0.36	0.00050	mg/L	0.05000	0.32	90	70-130			
Lead	0.056	0.00050	mg/L	0.05000	ND	112	70-130			
Manganese	0.94	0.0025	mg/L	0.05000	0.86	162	70-130			M1
Molybdenum	0.049	0.0025	mg/L	0.05000	0.00029	96	70-130			
Nickel	0.053	0.00050	mg/L	0.05000	0.0044	98	70-130			
Selenium	0.060	0.0025	mg/L	0.05000	0.0010	118	70-130			
Silver	0.050	0.00050	mg/L	0.05000	0.00018	100	70-130			
Thallium	0.056	0.00050	mg/L	0.05000	0.000029	113	70-130			
Zinc	0.35	0.040	mg/L	0.1000	0.26	97	70-130			
Batch 2108007 - E 245.1										
Blank (2108007-BLK1)				Prepared & Analyzed: 08/02/2021						
Mercury	ND	0.0010	mg/L							
LCS (2108007-BS1)				Prepared & Analyzed: 08/02/2021						
Mercury	0.0049	0.0010	mg/L	0.005000		98	85-115			
LCS Dup (2108007-BSD1)				Prepared & Analyzed: 08/02/2021						
Mercury	0.0050	0.0010	mg/L	0.005000		100	85-115	2	20	
Matrix Spike (2108007-MS1)				Source: 21G0695-10						
Mercury	0.0047	0.0010	mg/L	0.005000	ND	94	70-130			

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2108007 - E 245.1										
Matrix Spike (2108007-MS2)		Source: 21G0743-01			Prepared & Analyzed: 08/02/2021					
Mercury	0.0048	0.0010	mg/L	0.005000	0.0000082	96	70-130			
Matrix Spike Dup (2108007-MSD1)		Source: 21G0695-10			Prepared & Analyzed: 08/02/2021					
Mercury	0.0046	0.0010	mg/L	0.005000	ND	92	70-130	2	20	
Matrix Spike Dup (2108007-MSD2)		Source: 21G0743-01			Prepared & Analyzed: 08/02/2021					
Mercury	0.0048	0.0010	mg/L	0.005000	0.0000082	96	70-130	0.2	20	
Batch 2108035 - E200.7 (4.4)										
Blank (2108035-BLK1)				Prepared: 08/02/2021 Analyzed: 08/04/2021						
Boron	ND	0.10	mg/L							
Calcium	ND	4.0	mg/L							
Iron	ND	0.30	mg/L							
Magnesium	ND	3.0	mg/L							
Potassium	ND	5.0	mg/L							
Silica	0.016	0.20	mg/L							
Sodium	ND	5.0	mg/L							
LCS (2108035-BS1)				Prepared: 08/02/2021 Analyzed: 08/04/2021						
Boron	0.97	0.10	mg/L	1.000		97	85-115			
Calcium	9.4	4.0	mg/L	10.00		94	85-115			
Iron	0.92	0.30	mg/L	1.000		92	85-115			
Magnesium	9.6	3.0	mg/L	10.00		96	85-115			
Potassium	9.6	5.0	mg/L	10.00		96	85-115			
Sodium	9.5	5.0	mg/L	10.00		95	85-115			
LCS (2108035-BS2)				Prepared: 08/02/2021 Analyzed: 08/04/2021						
Silica	9.4	0.20	mg/L	10.00		94	85-115			
LCS Dup (2108035-BSD1)				Prepared: 08/02/2021 Analyzed: 08/04/2021						
Boron	0.97	0.10	mg/L	1.000		97	85-115	0.1	20	
Calcium	9.5	4.0	mg/L	10.00		95	85-115	0.5	20	
Iron	0.92	0.30	mg/L	1.000		92	85-115	0.2	20	
Magnesium	9.6	3.0	mg/L	10.00		96	85-115	0.3	20	
Potassium	9.5	5.0	mg/L	10.00		95	85-115	0.8	20	
Sodium	9.5	5.0	mg/L	10.00		95	85-115	0.07	20	
LCS Dup (2108035-BSD2)				Prepared: 08/02/2021 Analyzed: 08/04/2021						
Silica	9.4	0.20	mg/L	10.00		94	85-115	0.6	20	
Matrix Spike (2108035-MS1)		Source: 21G0552-01			Prepared: 08/02/2021 Analyzed: 08/04/2021					
Boron	1.1	0.10	mg/L	1.000	0.069	100	70-130			
Calcium	34	4.0	mg/L	10.00	25	89	70-130			
Iron	1.1	0.30	mg/L	1.000	0.21	93	70-130			
Magnesium	11	3.0	mg/L	10.00	1.5	94	70-130			
Potassium	14	5.0	mg/L	10.00	3.7	99	70-130			
Sodium	44	5.0	mg/L	10.00	35	99	70-130			

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2108035 - E200.7 (4.4)										
Matrix Spike (2108035-MS2)		Source: 21G0726-03			Prepared: 08/02/2021 Analyzed: 08/04/2021					
Boron	1.2	0.10	mg/L	1.000	0.20	101	70-130			
Calcium	110	4.0	mg/L	10.00	98	94	70-130			
Iron	1.1	0.30	mg/L	1.000	0.17	92	70-130			
Magnesium	32	3.0	mg/L	10.00	23	89	70-130			
Potassium	19	5.0	mg/L	10.00	9.3	95	70-130			
Sodium	140	5.0	mg/L	10.00	130	114	70-130			
Matrix Spike (2108035-MS3)		Source: 21G0732-06			Prepared: 08/02/2021 Analyzed: 08/04/2021					
Silica	45	0.20	mg/L	10.00	36	91	70-130			
Batch 2108048 - E245.1										
Blank (2108048-BLK1)		Prepared & Analyzed: 08/04/2021								
Mercury	ND	0.0010	mg/L							
LCS (2108048-BS1)		Prepared & Analyzed: 08/04/2021								
Mercury	0.0051	0.0010	mg/L	0.005000		103	85-115			
LCS Dup (2108048-BSD1)		Prepared & Analyzed: 08/04/2021								
Mercury	0.0052	0.0010	mg/L	0.005000		103	85-115	0.3	20	
Matrix Spike (2108048-MS1)		Source: 21G0685-01			Prepared & Analyzed: 08/04/2021					
Mercury	0.0051	0.0010	mg/L	0.005000	ND	101	70-130			
Matrix Spike (2108048-MS2)		Source: 21G0701-01			Prepared & Analyzed: 08/04/2021					
Mercury	0.0050	0.0010	mg/L	0.005000	ND	100	70-130			
Matrix Spike Dup (2108048-MSD1)		Source: 21G0685-01			Prepared & Analyzed: 08/04/2021					
Mercury	0.0050	0.0010	mg/L	0.005000	ND	99	70-130	2	20	
Matrix Spike Dup (2108048-MSD2)		Source: 21G0701-01			Prepared & Analyzed: 08/04/2021					
Mercury	0.0051	0.0010	mg/L	0.005000	ND	102	70-130	2	20	
Batch 2108052 - E200.8 (5.4)										

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2108052 - E200.8 (5.4)										
Blank (2108052-BLK1)				Prepared: 08/03/2021 Analyzed: 08/04/2021						
Aluminum	ND	0.0400	mg/L							
Antimony	ND	0.00050	mg/L							
Arsenic	ND	0.00050	mg/L							
Barium	ND	0.00050	mg/L							
Beryllium	ND	0.00025	mg/L							
Cadmium	ND	0.00025	mg/L							
Chromium	0.0016	0.00050	mg/L							B1
Cobalt	ND	0.000250	mg/L							
Copper	ND	0.00050	mg/L							
Lead	ND	0.00050	mg/L							
Manganese	ND	0.00025	mg/L							
Molybdenum	ND	0.00025	mg/L							
Nickel	0.00078	0.00050	mg/L							B1
Selenium	ND	0.0025	mg/L							
Silver	ND	0.00050	mg/L							
Thallium	0.000029	0.00050	mg/L							
Uranium	ND	0.00050	mg/L							
Zinc	ND	0.040	mg/L							
LCS (2108052-BS1)				Prepared: 08/03/2021 Analyzed: 08/04/2021						
Aluminum	0.108	0.0400	mg/L	0.1000		108	85-115			
Antimony	0.049	0.00050	mg/L	0.05000		99	85-115			
Arsenic	0.051	0.00050	mg/L	0.05000		103	85-115			
Barium	0.048	0.00050	mg/L	0.05000		96	85-115			
Beryllium	0.052	0.00025	mg/L	0.05000		104	85-115			
Cadmium	0.050	0.00025	mg/L	0.05000		101	85-115			
Chromium	0.049	0.00050	mg/L	0.05000		99	85-115			
Cobalt	0.0486	0.000250	mg/L	0.05000		97	85-115			
Copper	0.049	0.00050	mg/L	0.05000		99	85-115			
Lead	0.049	0.00050	mg/L	0.05000		98	85-115			
Manganese	0.049	0.00025	mg/L	0.05000		99	85-115			
Molybdenum	0.048	0.00025	mg/L	0.05000		96	85-115			
Nickel	0.049	0.00050	mg/L	0.05000		97	85-115			
Selenium	0.054	0.0025	mg/L	0.05000		108	85-115			
Silver	0.048	0.00050	mg/L	0.05000		97	85-115			
Thallium	0.047	0.00050	mg/L	0.05000		94	85-115			
Uranium	0.048	0.00050	mg/L	0.05000		97	85-115			
Zinc	0.11	0.040	mg/L	0.1000		110	85-115			

Client: Rosemont Copper Company
 Project: Baseline Stormwater Monitoring
 Work Order: 21G0635
 Date Received: 07/23/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch 2108052 - E200.8 (5.4)

LCS Dup (2108052-BSD1)

Prepared: 08/03/2021 Analyzed: 08/04/2021

Aluminum	0.106	0.0400	mg/L	0.1000		106	85-115	2	20	
Antimony	0.049	0.00050	mg/L	0.05000		99	85-115	0.3	20	
Arsenic	0.052	0.00050	mg/L	0.05000		103	85-115	0.4	20	
Barium	0.048	0.00050	mg/L	0.05000		96	85-115	0.05	20	
Beryllium	0.052	0.00025	mg/L	0.05000		103	85-115	0.7	20	
Cadmium	0.051	0.00025	mg/L	0.05000		102	85-115	0.7	20	
Chromium	0.049	0.00050	mg/L	0.05000		98	85-115	1	20	
Cobalt	0.0482	0.000250	mg/L	0.05000		96	85-115	0.8	20	
Copper	0.049	0.00050	mg/L	0.05000		98	85-115	0.6	20	
Lead	0.049	0.00050	mg/L	0.05000		98	85-115	0.002	20	
Manganese	0.048	0.00025	mg/L	0.05000		96	85-115	3	20	
Molybdenum	0.048	0.00025	mg/L	0.05000		96	85-115	0.5	20	
Nickel	0.049	0.00050	mg/L	0.05000		98	85-115	0.5	20	
Selenium	0.055	0.0025	mg/L	0.05000		111	85-115	2	20	
Silver	0.049	0.00050	mg/L	0.05000		97	85-115	0.5	20	
Thallium	0.047	0.00050	mg/L	0.05000		94	85-115	0.06	20	
Uranium	0.049	0.00050	mg/L	0.05000		97	85-115	0.2	20	
Zinc	0.11	0.040	mg/L	0.1000		109	85-115	0.9	20	

Matrix Spike (2108052-MS1)

Source: 21G0695-01

Prepared: 08/03/2021 Analyzed: 08/04/2021

Aluminum	9.76	4.00	mg/L	0.1000	9.59	173	70-130			M3
Antimony	0.047	0.00050	mg/L	0.05000	0.00035	93	70-130			
Arsenic	0.053	0.00050	mg/L	0.05000	0.0020	101	70-130			
Barium	0.070	0.00050	mg/L	0.05000	0.021	98	70-130			
Beryllium	0.050	0.00025	mg/L	0.05000	0.0033	94	70-130			
Cadmium	0.062	0.00025	mg/L	0.05000	0.014	96	70-130			
Chromium	0.054	0.00050	mg/L	0.05000	0.0016	104	70-130			
Cobalt	0.0870	0.000250	mg/L	0.05000	0.0412	92	70-130			
Copper	22	0.050	mg/L	0.05000	22	NR	70-130			M3
Lead	0.060	0.00050	mg/L	0.05000	0.012	96	70-130			
Manganese	4.2	0.025	mg/L	0.05000	4.1	131	70-130			M3
Molybdenum	0.051	0.00025	mg/L	0.05000	0.0047	93	70-130			
Nickel	0.063	0.00050	mg/L	0.05000	0.017	93	70-130			
Selenium	0.070	0.0025	mg/L	0.05000	0.018	106	70-130			
Silver	0.047	0.00050	mg/L	0.05000	0.0010	92	70-130			
Thallium	0.049	0.00050	mg/L	0.05000	0.00054	96	70-130			
Uranium	0.058	0.00050	mg/L	0.05000	0.0058	105	70-130			
Zinc	ND	0.040	mg/L	0.1000	2.2	NR	70-130			

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch 2108052 - E200.8 (5.4)

Matrix Spike (2108052-MS2)		Source: 21G0695-10			Prepared: 08/03/2021 Analyzed: 08/04/2021					
Aluminum	0.491	0.0400	mg/L	0.1000	0.396	94	70-130			
Antimony	0.047	0.00050	mg/L	0.05000	0.00083	93	70-130			
Arsenic	0.053	0.00050	mg/L	0.05000	0.0027	100	70-130			
Barium	0.13	0.00050	mg/L	0.05000	0.087	88	70-130			
Beryllium	0.050	0.00025	mg/L	0.05000	0.000049	100	70-130			
Cadmium	0.048	0.00025	mg/L	0.05000	0.000062	96	70-130			
Chromium	0.052	0.00050	mg/L	0.05000	0.00048	104	70-130			
Cobalt	0.0461	0.000250	mg/L	0.05000	0.000329	92	70-130			
Copper	0.051	0.00050	mg/L	0.05000	0.0076	87	70-130			
Lead	0.051	0.00050	mg/L	0.05000	0.0023	97	70-130			
Manganese	0.097	0.00025	mg/L	0.05000	0.058	78	70-130			
Molybdenum	0.051	0.00025	mg/L	0.05000	0.0021	97	70-130			
Nickel	0.050	0.00050	mg/L	0.05000	0.0020	95	70-130			
Selenium	0.050	0.0025	mg/L	0.05000	0.0017	97	70-130			
Silver	0.045	0.00050	mg/L	0.05000	ND	89	70-130			
Thallium	0.048	0.00050	mg/L	0.05000	0.00035	96	70-130			
Uranium	0.052	0.00050	mg/L	0.05000	0.00045	104	70-130			
Zinc	0.12	0.040	mg/L	0.1000	0.018	99	70-130			

Batch 2108059 - E200.7 (4.4)

Blank (2108059-BLK1)				Prepared: 08/04/2021 Analyzed: 08/06/2021						
Boron	ND	0.10	mg/L							
Calcium	ND	4.0	mg/L							
Iron	ND	0.30	mg/L							
Magnesium	ND	3.0	mg/L							
Potassium	ND	5.0	mg/L							
Silica	0.012	0.20	mg/L							
Sodium	ND	5.0	mg/L							

LCS (2108059-BS1)				Prepared: 08/04/2021 Analyzed: 08/06/2021						
Boron	0.97	0.10	mg/L	1.000		97	85-115			
Calcium	10	4.0	mg/L	10.00		100	85-115			
Iron	0.99	0.30	mg/L	1.000		99	85-115			
Magnesium	9.7	3.0	mg/L	10.00		97	85-115			
Potassium	9.5	5.0	mg/L	10.00		95	85-115			
Sodium	9.7	5.0	mg/L	10.00		97	85-115			

LCS (2108059-BS2)				Prepared: 08/04/2021 Analyzed: 08/06/2021						
Silica	9.5	0.20	mg/L	10.00		95	85-115			

LCS Dup (2108059-BSD1)				Prepared: 08/04/2021 Analyzed: 08/06/2021						
Boron	0.97	0.10	mg/L	1.000		97	85-115	0.3	20	
Calcium	9.9	4.0	mg/L	10.00		99	85-115	1	20	
Iron	0.98	0.30	mg/L	1.000		98	85-115	1	20	
Magnesium	9.8	3.0	mg/L	10.00		98	85-115	0.5	20	
Potassium	9.6	5.0	mg/L	10.00		96	85-115	0.6	20	
Sodium	9.6	5.0	mg/L	10.00		96	85-115	0.8	20	

Client: Rosemont Copper Company
 Project: Baseline Stormwater Monitoring
 Work Order: 21G0635
 Date Received: 07/23/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2108059 - E200.7 (4.4)										
LCS Dup (2108059-BSD2)				Prepared: 08/04/2021 Analyzed: 08/06/2021						
Silica	9.5	0.20	mg/L	10.00		95	85-115	0.07	20	
Matrix Spike (2108059-MS1)				Source: 21G0629-02		Prepared: 08/04/2021 Analyzed: 08/06/2021				
Boron	1.3	0.10	mg/L	1.000	0.36	97	70-130			
Calcium	140	4.0	mg/L	10.00	130	85	70-130			
Iron	2.3	0.30	mg/L	1.000	1.5	87	70-130			
Magnesium	210	3.0	mg/L	10.00	210	54	70-130			M3
Potassium	93	5.0	mg/L	10.00	86	75	70-130			
Sodium	330	5.0	mg/L	10.00	330	20	70-130			M3
Matrix Spike (2108059-MS2)				Source: 21G0635-08		Prepared: 08/04/2021 Analyzed: 08/06/2021				
Boron	0.99		mg/L	1.000	0.013	98	70-130			
Calcium	140		mg/L	10.00	130	72	70-130			
Iron	3.3		mg/L	1.000	2.0	130	70-130			M6
Magnesium	15		mg/L	10.00	5.3	101	70-130			
Potassium	16		mg/L	10.00	5.8	98	70-130			
Sodium	10		mg/L	10.00	0.59	97	70-130			
Matrix Spike (2108059-MS3)				Source: 21G0629-02		Prepared: 08/04/2021 Analyzed: 08/06/2021				
Silica	46	0.20	mg/L	10.00	37	93	70-130			

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2107285 - SM2540 D										
Duplicate (2107285-DUP1) Source: 21G0494-01 Prepared: 07/26/2021 Analyzed: 07/27/2021										
Total Suspended Solids	24	10	mg/L		23			4	5	Q9
Duplicate (2107285-DUP2) Source: 21G0497-01 Prepared: 07/26/2021 Analyzed: 07/27/2021										
Total Suspended Solids	40	10	mg/L		39			3	5	
Batch 2107304 - SM2540 C										
Duplicate (2107304-DUP1) Source: 21G0585-03 Prepared: 07/27/2021 Analyzed: 07/29/2021										
Total Dissolved Solids (Residue, Filterable)	410	20	mg/L		420			2	5	
Duplicate (2107304-DUP2) Source: 21G0624-01 Prepared: 07/27/2021 Analyzed: 07/29/2021										
Total Dissolved Solids (Residue, Filterable)	120	20	mg/L		130			5	5	
Duplicate (2107304-DUP3) Source: 21G0649-01 Prepared: 07/27/2021 Analyzed: 07/28/2021										
Total Dissolved Solids (Residue, Filterable)	520	20	mg/L		530			2	5	
Batch 2107330 - E180.1										
Duplicate (2107330-DUP1) Source: 21G0555-01 Prepared & Analyzed: 07/27/2021										
Turbidity	0.90	0.10	NTU		0.90			0	10	
Duplicate (2107330-DUP2) Source: 21G0688-01 Prepared & Analyzed: 07/27/2021										
Turbidity	0.10	0.10	NTU		0.10			0	10	
Batch 2107335 - SM4500-SiO2 C										
Blank (2107335-BLK1) Source: 21G0609-02 Prepared & Analyzed: 07/28/2021										
Silica	ND	2.0	mg/L							
LCS (2107335-BS1) Source: 21G0609-02 Prepared & Analyzed: 07/28/2021										
Silica	8.1	2.0	mg/L		8.000	101	90-110			
LCS Dup (2107335-BSD1) Source: 21G0609-02 Prepared & Analyzed: 07/28/2021										
Silica	8.3	2.0	mg/L		8.000	104	90-110	2	20	
Matrix Spike (2107335-MS1) Source: 21G0609-02 Prepared & Analyzed: 07/28/2021										
Silica	66	10	mg/L		40.00	19	116	85-115		M1
Matrix Spike Dup (2107335-MSD1) Source: 21G0609-02 Prepared & Analyzed: 07/28/2021										
Silica	63	10	mg/L		40.00	19	110	85-115	3	20
Batch 2107340 - SM4500-NH3 B,C										
Blank (2107340-BLK1) Source: 21G0609-02 Prepared & Analyzed: 07/28/2021										
Nitrogen, Ammonia (As N)	ND	0.50	mg/L							
LCS (2107340-BS1) Source: 21G0609-02 Prepared & Analyzed: 07/28/2021										
Nitrogen, Ammonia (As N)	5.0	0.50	mg/L		5.000	100	90-110			
LCS Dup (2107340-BSD1) Source: 21G0609-02 Prepared & Analyzed: 07/28/2021										
Nitrogen, Ammonia (As N)	5.1	0.50	mg/L		5.000	101	90-110	1	10	

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2107340 - SM4500-NH3 B,C										
Matrix Spike (2107340-MS1) Source: 21G0003-03 Prepared & Analyzed: 07/28/2021										
Nitrogen, Ammonia (As N)	4.9	0.50	mg/L	5.000	0.090	97	75-120			
Matrix Spike (2107340-MS2) Source: 21G0495-01 Prepared & Analyzed: 07/28/2021										
Nitrogen, Ammonia (As N)	4.9	0.50	mg/L	5.000	0.067	96	75-120			
Matrix Spike Dup (2107340-MSD1) Source: 21G0003-03 Prepared & Analyzed: 07/28/2021										
Nitrogen, Ammonia (As N)	4.8	0.50	mg/L	5.000	0.090	95	75-120	2	20	
Matrix Spike Dup (2107340-MSD2) Source: 21G0495-01 Prepared & Analyzed: 07/28/2021										
Nitrogen, Ammonia (As N)	4.7	0.50	mg/L	5.000	0.067	94	75-120	3	20	
Batch 2107354 - SM4500-SiO2 C										
Blank (2107354-BLK1) Prepared & Analyzed: 07/29/2021										
Silica	ND	2.0	mg/L							
LCS (2107354-BS1) Prepared & Analyzed: 07/29/2021										
Silica	7.7	2.0	mg/L	8.000		96	90-110			
LCS Dup (2107354-BSD1) Prepared & Analyzed: 07/29/2021										
Silica	7.9	2.0	mg/L	8.000		98	90-110	2	20	
Matrix Spike (2107354-MS1) Source: 21G0635-08 Prepared & Analyzed: 07/29/2021										
Silica	11	2.0	mg/L	8.000	2.6	102	85-115			
Matrix Spike Dup (2107354-MSD1) Source: 21G0635-08 Prepared & Analyzed: 07/29/2021										
Silica	11	2.0	mg/L	8.000	2.6	103	85-115	0.2	20	
Batch 2107372 - SM2320B										
Blank (2107372-BLK1) Prepared & Analyzed: 07/30/2021										
Alkalinity, Bicarbonate (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Carbonate (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Hydroxide (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Total (As CaCO3)	ND	2.0	mg/L							
LCS (2107372-BS1) Prepared & Analyzed: 07/30/2021										
Alkalinity, Total (As CaCO3)	240	2.0	mg/L	250.0		94	90-110			
LCS Dup (2107372-BSD1) Prepared & Analyzed: 07/30/2021										
Alkalinity, Total (As CaCO3)	240	2.0	mg/L	250.0		94	90-110	0	10	
Matrix Spike (2107372-MS1) Source: 21G0624-01 Prepared & Analyzed: 07/30/2021										
Alkalinity, Total (As CaCO3)	260	2.0	mg/L	250.0	30	93	70-130			
Matrix Spike Dup (2107372-MSD1) Source: 21G0624-01 Prepared & Analyzed: 07/30/2021										
Alkalinity, Total (As CaCO3)	260	2.0	mg/L	250.0	30	91	70-130	2	10	
Batch 2108012 - SM2510 B										
LCS (2108012-BS1) Prepared & Analyzed: 07/30/2021										
Conductivity	140	0.10	µmhos/cm	141.2		101	0-200			

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2108012 - SM2510 B										
LCS Dup (2108012-BSD1)				Prepared & Analyzed: 07/30/2021						
Conductivity	150	0.10	µmhos/cm	141.2		103	0-200	3	200	
Duplicate (2108012-DUP1)				Source: 21G0635-01			Prepared & Analyzed: 07/30/2021			
Conductivity	400	0.10	µmhos/cm		400			2	10	
Batch 2108014 - E150.1										
Duplicate (2108014-DUP1)				Source: 21G0695-01			Prepared & Analyzed: 07/30/2021			
pH (pH Units)	4.4		-		4.4			0.9	200	H5
Temperature (°C)	20		-		20			0.5	200	H5
Batch 2108036 - PAI-DK01										
Blank (2108036-BLK1)				Prepared: 07/29/2021 Analyzed: 08/03/2021						
Nitrogen, Total Kjeldahl	ND	0.50	mg/L							
LCS (2108036-BS1)				Prepared: 07/29/2021 Analyzed: 08/03/2021						
Nitrogen, Total Kjeldahl	5.1	0.50	mg/L	5.000		101	80-120			
LCS Dup (2108036-BSD1)				Prepared: 07/29/2021 Analyzed: 08/03/2021						
Nitrogen, Total Kjeldahl	5.1	0.50	mg/L	5.000		101	80-120	0	20	
Matrix Spike (2108036-MS1)				Source: 21G0003-02			Prepared: 07/29/2021 Analyzed: 08/03/2021			
Nitrogen, Total Kjeldahl	5.6	0.50	mg/L	5.000	0.61	101	80-120			
Matrix Spike (2108036-MS2)				Source: 21G0428-01			Prepared: 07/29/2021 Analyzed: 08/03/2021			
Nitrogen, Total Kjeldahl	5.3	0.50	mg/L	5.000	0.87	88	80-120			
Matrix Spike Dup (2108036-MSD1)				Source: 21G0003-02			Prepared: 07/29/2021 Analyzed: 08/03/2021			
Nitrogen, Total Kjeldahl	5.3	0.50	mg/L	5.000	0.61	94	80-120	6	20	
Matrix Spike Dup (2108036-MSD2)				Source: 21G0428-01			Prepared: 07/29/2021 Analyzed: 08/03/2021			
Nitrogen, Total Kjeldahl	5.1	0.50	mg/L	5.000	0.87	85	80-120	2	20	

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0635
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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2107278 - E300.0 (2.1)										
Blank (2107278-BLK1)				Prepared & Analyzed: 07/23/2021						
Chloride	ND	1.0	mg/L							
Fluoride	ND	0.50	mg/L							
Nitrogen, Nitrate (As N)	ND	0.50	mg/L							
Nitrogen, Nitrite (As N)	ND	0.10	mg/L							
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50	mg/L							
Sulfate	ND	5.0	mg/L							
LCS (2107278-BS1)				Prepared & Analyzed: 07/23/2021						
Chloride	13	1.0	mg/L	12.50		101	90-110			
Fluoride	2.1	0.50	mg/L	2.000		106	90-110			
Nitrogen, Nitrate (As N)	5.2	0.50	mg/L	5.000		103	90-110			
Nitrogen, Nitrite (As N)	2.5	0.10	mg/L	2.500		101	90-110			
Phosphorus, Dissolved Orthophosphate (As P)	2.6	0.50	mg/L	2.500		103	90-110			
Sulfate	13	5.0	mg/L	12.50		104	90-110			
LCS Dup (2107278-BSD1)				Prepared & Analyzed: 07/23/2021						
Chloride	13	1.0	mg/L	12.50		101	90-110	0.1	10	
Fluoride	2.1	0.50	mg/L	2.000		107	90-110	0.3	10	
Nitrogen, Nitrate (As N)	5.2	0.50	mg/L	5.000		103	90-110	0.2	10	
Nitrogen, Nitrite (As N)	2.5	0.10	mg/L	2.500		101	90-110	0.2	10	
Phosphorus, Dissolved Orthophosphate (As P)	2.6	0.50	mg/L	2.500		106	90-110	2	10	
Sulfate	13	5.0	mg/L	12.50		103	90-110	0.9	10	
Matrix Spike (2107278-MS1)				Source: 21G0612-01		Prepared: 07/23/2021 Analyzed: 08/04/2021				
Chloride	17	1.0	mg/L	12.50	5.0	93	80-120			
Fluoride	1.9	0.50	mg/L	2.000	ND	94	80-120			
Nitrogen, Nitrate (As N)	6.1	0.50	mg/L	5.000	1.2	97	80-120			
Nitrogen, Nitrite (As N)	2.8	0.10	mg/L	2.500	0.16	106	80-120			
Phosphorus, Dissolved Orthophosphate (As P)	2.7	0.50	mg/L	2.500	ND	107	80-120			
Sulfate	16	5.0	mg/L	12.50	7.0	69	80-120			M2
Matrix Spike (2107278-MS2)				Source: 21G0612-02		Prepared: 07/23/2021 Analyzed: 08/04/2021				
Chloride	13	1.0	mg/L	12.50	1.9	92	80-120			
Fluoride	1.8	0.50	mg/L	2.000	ND	92	80-120			
Nitrogen, Nitrate (As N)	6.6	0.50	mg/L	5.000	1.8	97	80-120			
Nitrogen, Nitrite (As N)	2.8	0.10	mg/L	2.500	0.14	107	80-120			
Sulfate	14	5.0	mg/L	12.50	5.5	71	80-120			M2
Matrix Spike (2107278-MS3)				Source: 21G0613-01		Prepared: 07/23/2021 Analyzed: 08/04/2021				
Sulfate	14	5.0	mg/L	12.50	5.6	68	80-120			M2

Client: Rosemont Copper Company
 Project: Baseline Stormwater Monitoring
 Work Order: 21G0635
 Date Received: 07/23/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2107278 - E300.0 (2.1)										
Matrix Spike Dup (2107278-MSD1)			Source: 21G0612-01		Prepared: 07/23/2021 Analyzed: 08/04/2021					
Chloride	17	1.0	mg/L	12.50	5.0	92	80-120	0.4	10	
Fluoride	1.9	0.50	mg/L	2.000	ND	94	80-120	0.5	10	
Nitrogen, Nitrate (As N)	6.0	0.50	mg/L	5.000	1.2	97	80-120	0.5	10	
Nitrogen, Nitrite (As N)	2.8	0.10	mg/L	2.500	0.16	105	80-120	0.4	10	
Phosphorus, Dissolved Orthophosphate (As P)	2.7	0.50	mg/L	2.500	ND	106	80-120	0.7	10	
Sulfate	16	5.0	mg/L	12.50	7.0	69	80-120	0.5	10	M2
Matrix Spike Dup (2107278-MSD2)			Source: 21G0612-02		Prepared: 07/23/2021 Analyzed: 08/04/2021					
Chloride	13	1.0	mg/L	12.50	1.9	93	80-120	0.5	10	
Fluoride	1.9	0.50	mg/L	2.000	ND	93	80-120	0.8	10	
Nitrogen, Nitrate (As N)	6.6	0.50	mg/L	5.000	1.8	97	80-120	0.3	10	
Nitrogen, Nitrite (As N)	2.8	0.10	mg/L	2.500	0.14	107	80-120	0.5	10	
Sulfate	14	5.0	mg/L	12.50	5.5	72	80-120	0.4	10	M2
Matrix Spike Dup (2107278-MSD3)			Source: 21G0613-01		Prepared: 07/23/2021 Analyzed: 08/04/2021					
Sulfate	14	5.0	mg/L	12.50	5.6	70	80-120	1	10	M2



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 Tucson, Arizona 85745
 (520) 882-5880
 Fax: (520) 882-9788
 www.turnerlabs.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 2160635 DATE 7/23/21 PAGE 1 OF 1

PROJECT NAME Stormwater # _____

CONTACT NAME : David Krizek

COMPANY NAME : Hubday Minerals/ Rosemont Copper Company

ADDRESS : 5255 E Williams Circle, Suite 1065

CITY Tucson STATE AZ ZIP CODE 85711

PHONE 520-495-3527 FAX _____

SAMPLER'S SIGNATURE Holly Boggs

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS
TA1-07221	7.22.21	2000	SW	SW	4
D12-07221	7.22.21	2000	SW	SW	X
TK2-07221	7.22.21	2000	SW	SW	X
TK3-07221	7.22.21	2000	SW	SW	X
D4-07221	7.22.21	2000	SW	SW	X
D4A-07221	7.22.21	2000	SW	SW	X
D4B-07221	7.22.21	2000	SW	SW	X
D32-07221	7.22.21	2000	SW	SW	X

SEE ATTACHED SHEET TOC

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

1. RELINQUISHED BY: _____

2. RECEIVED BY: _____

3. RELINQUISHED BY: Holly Boggs

4. RECEIVED BY: David Krizek

Signature: _____

Printed Name: _____

Firm: _____

Date/Time: _____

Signature: _____

Printed Name: Turner Laboratories, Inc.

Firm: Turner Laboratories, Inc.

Date/Time: 7/23/21

* LEGEND
 DW = DRINKING WATER
 GW = GROUNDWATER
 SD = SOLID
 SG = SLUDGE
 SL = SOIL
 ST = STORMWATER
 WW = WASTEWATER

TURNAROUND REQUIREMENTS:
 Standard (approx. 10 days)*
 Next day ___ 2 Day ___ 5 Day*
 Email Preliminary Results To: _____

REPORT REQUIREMENTS:
 I. Routine Report
 II. Report (includes DUP, MS, MSD, as required, may be charged as samples)
 III. Date Validation Report (includes All Raw Data)
 Add 10% to invoice

INVOICE INFORMATION:
 Account ___ Y ___ N
 P.O. # _____
 Bill to: _____

SAMPLE RECEIPT:
 Total Containers 32
 Temperature 7.8
 Wet Ice Blue Ice

SPECIAL INSTRUCTIONS/COMMENTS:
 Compliance Analysis: Yes No
 Custody Seals Preservation Confirmation
 ADEQ Forms: Yes No Container Intact Appropriate Head Space
 Mail ADEQ Forms: Yes No COC/Labels Agree Received Within Hold Time